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SERIE: HYDROGRAFI · BIND II

Nr. 8: CURRENT MEASUREMENTS FROM DANISH LIGHTSHIPS

KØBENHAVN
C. A. REITZEL, BOGHANDEL
BIANCO LUNOS BOGTRYKKERI
1928

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MEDDELELSER FRA KOMMISSIONEN FOR HAVUNDERSØGELSER
SERIE: HYDROGRAFI · BIND II · NR. 8 · 1923

CURRENT MEASUREMENTS

FROM

DANISH LIGHTSHIPS

KØBENHAVN
C. A. REITZEL, BOGHANDEL
BIANCO LUNOS BOGTRYKKERI
1923

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GENERAL REMARKS ABOUT THE OBSERVATIONS

The present material of current measurements in the deep from Danish Lightships was collected in the years 1912—14. The measurements were carried out by means of the libelle current meter, the use of which I have previously described.[1] The measurements were taken at depths of $2^1/_2$, 5, 10, 15, 20, 25 and 30 metres below surface, to such depth as the position of the lightship permitted. At the lightship "Horns Rev" a measurement was taken near the bottom at a depth of $27^1/_2$ metres, besides at the above-mentioned depths. The measurements were taken nearly simultaneously at all depths, as the entire series could generally be carried out in fifteen minutes. The various series of measurements from both lightships were carried out very nearly at intervals of four hours, as nearly as possible at 12, 4 and 8 a. m. and p. m. The times noted in the following tables are given in central European time, and the time noted above the separate series of measurements indicates the mean time at which the series was carried out.

The readings of the current meter and the necessary calculations, as for instance of the length of line to be paid out to give the cylinder the depth required, were carried out by the crews of the lightships. The calculations of direction and velocity of the current were done at the Hydrographical Laboratory.

As indicated above each of the tables, the true direction of the current is given by the direction toward which the current flows; the velocity is registered in cm/sec. For purposes of comparison, it may be mentioned that 1 nautical mile per hour equals 51.5 cm/sec.

Apart from actually erroneous observations, of which there will probably be one or two, we can generally expect that the velocity of the current will have been determined with a mean error varying from 5 cm/sec. to 20 cm/sec., as the degree of accuracy with which the observations were made depends very largely upon the conditions prevailing at the time. In boisterous weather, with a heavy sea, it will be impossible to read the apparatus with anything like the accuracy obtainable in calm weather, and cases may thus arise where the result of the observation ought strictly speaking to be disregarded altogether. A critical examination of the material with special regard to the accuracy of the measurements, is, however, naturally to be carried out together with a detailed working up of the whole material and as it always is a delicate matter beforehand to reject certain observations as incorrect, the whole material has been published without such critical revision, and without rejection of any individual measurements.

In calm weather, the highest degree of accuracy will be obtained in the case of the stronger currents, and where the weather is reasonably favourable, we may presumably take it that the mean error in the velocities of the currents will lie between 5 cm/sec. and 10 cm/sec.

With regard to direction of the current, it may be noted that the degree of accuracy is highest for comparatively strong currents; the mean error for observation of direction may be taken as lying between 10° and 20°. The mean error in the records of direction will of course be considerably greater in cases where the velocity of the current is of the same order of magnitude as its mean error.

Copenhagen December 1923.

J. P. Jacobsen.

[1] Publications de Circonstance No. 51, Copenhagen 1909 and Medd. fra Kom. for Havunders. Vol. II, No. 2 p. 59, Copenhagen 1913.

CURRENT MEASUREMENTS FROM LIGHTSHIP

HORNS REV

55° 34′ N. LAT. 7° 20′ E. LONG. GRW.

DEPTH OF THE SEA 32 M.

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	**2** 7^{50} p	**2** 11^{50} p	**11** 3^{50} a	**11** 7^{45} a	**11** 11^{50} a	**11** 3^{52} p	**11** 7^{50} p	**11** 11^{50} p
2½	N 66 W 40	S 27 W 34	N 07 E 39	S 06 E 21	N 38 W 71	N 52 W 24	S 65 W 42	N 42 W 67
5	N 53 W 46	S 27 W 34	N 03 W 38	S 20 E 31	N 48 W 84	N 34 W 32	S 47 W 42	N 35 W 70
10	N 29 W 31	S 74 W 52	N 22 E 27	S 24 E 26	N 48 W 64	N 31 W 31	S 16 E 36	N 27 W 64
15	N 07 W 30	S 68 W 57	S 82 E 18	S 16 E 20	N 44 W 45	N 70 E 24	S 58 E 32	N 43 W 53
20	N 08 E 22	S 62 W 73	S 73 E 9	S 14 E 14	N 30 W 38	S 53 E 24	N 10 E 6	N 23 W 39
25	N 16 W 15	S 56 W 56	S 54 E 11	S 13 E 13	N 22 W 37	S 44 E 24	N 10 E 6	N 14 W 38
27½	N 52 W 10	S 63 W 51	S 26 E 19	S 28 E 8	N 07 W 28	S 14 E 24	N 10 E 6	N 19 W 38
30	S 72 E 4	S 66 W 50	S 18	S 66 E 7	N 07 W 29	S 16 E 24	N 10 E 6	N 38 W 36

	3 3^{50} a	**3** 7^{48} a	**3** 11^{48} a	**3** 3^{48} p	**3** 7^{48} p	**3** 11^{50} p	**12** 3^{48} a	**12** 7^{48} a	**12** 11^{42} a	**12** 3^{50} p	**12** 7^{50} p	**12** 11^{45} p
2½	N 73 W 31	N 88 W 36	S 11 W 21	N 03 W 70	N 07 E 48	S 30 E 59	N 40 W 34	S 24 E 46	S 65 W 36	N 19 W 36	S 37 E 49	N 83 W 20
5	N 74 W 25	N 87 W 46	S 63 E 25	N 24 W 69	N 09 W 70	S 65 E 69	N 30 W 38	S 32 E 46	S 86 W 46	N 34 W 44	S 48 E 43	N 80 W 21
10	N 60 W 32	S 87 W 56	S 50 E 33	N 40 W 69	N 24 W 77	S 80 E 60	N 30 W 37	S 27 E 40	N 86 W 43	N 28 W 35	S 42 E 51	N 78 W 28
15	N 66 W 29	S 87 W 54	S 19 E 31	N 39 W 75	N 30 W 75	S 85 E 70	N 20 W 23	S 23 E 34	N 29 W 31	N 67 W 30	S 36 E 46	N 41 W 32
20	N 06 E 32	S 86 W 53	S 31 E 22	N 36 W 76	N 35 W 72	S 49 E 48	N 03 E 6	S 05 E 34	N 21 W 18	S 28 W 24	S 23 E 29	N 25 W 34
25	N 42 W 37	S 70 W 47	S 39 E 22	N 28 W 69	N 36 W 58	S 61 E 51	N 68 E 1	S 08 E 28	N 48 E 22	S 24 W 21	S 30 E 26	N 10 W 34
27½	N 15 W 38	S 88 W 46	S 26 E 31	N 25 W 59	N 48 W 63	S 31 E 43	S 42 E 4	S 10 E 21	N 55 E 28	S 44 W 23	S 46 E 20	N 08 E 33
30	N 12 W 35	S 81 W 24	S 39 E 30	N 18 W 44	N 41 W 57	S 29 E 39	S 30 E 2	S 21 E 21	N 53 E 30	S 27 W 20	S 48 E 16	N 21 W 37

	4 3^{50} a	**4** 7^{52} a	**4** 11^{48} a	**4** 3^{55} p	**4** 7^{48} p	**4** 11^{50} p	**13** 3^{50} a	**13** 7^{50} a	**13** 11^{48} a	**13** 4^{02} p	**13** 7^{50} p	**13** 11^{50} p
2½	N 02 E 30	N 10 W 44	N 10 E 13	N 13 W 31	N 16 W 64	S 35 E 16	N 25 W 46	S 33 E 44	S 16 W 7	N 29 W 36	S 41 E 40	N 44 W 14
5	N 13 W 39	N 33 W 48	N 04 E 20	N 37 W 25	N 01 W 69	S 33 E 24	N 38 W 53	S 35 E 41	S 69 W 11	N 38 W 49	S 45 E 43	N 41 W 19
10	N 19 W 35	N 44 W 47	N 08 W 20	N 39 W 24	N 56	S 50 E 25	N 40 W 46	S 45 E 35	S 57 W 19	N 36 W 44	S 54 E 34	N 53 W 21
15	N 10 W 36	N 30 W 46	N 22 W 28	N 28 W 33	N 01 E 63	S 32 E 22	N 50 W 20	S 25 E 46	S 63 W 21	N 28 W 35	S 53 E 37	N 54 W 32
20	N 13 W 34	N 40 W 45	N 25 W 20	N 48 W 31	N 06 W 47	S 40 E 27	N 50 W 15	S 27 E 25	N 40 W 34	N 26 W 21	S 39 E 29	N 51 W 37
25	N 13 W 33	N 40 W 43	N 65 W 26	N 28 W 44	N 02 E 53	S 30 E 30	N 60 W 15	S 30 E 37	N 20 W 28	N 66 W 12	S 20 E 23	N 40 W 33
27½	N 16 W 32	N 51 W 36	N 58 W 21	N 36 W 29	N 03 W 37	S 28 E 33	N 66 W 15	S 21 E 33	N 04 E 25	N 89 W 14	S 16 E 20	N 15 W 33
30	N 16 W 29	N 39 W 42	N 72 W 26	N 33 W 36	N 01 W 50	S 32 E 30	N 80 W 15	S 27 E 26	N 20 E 29	N 80 W 16	S 29 E 22	N 10 E 34

	5 3^{50} a	**5** 7^{52} a	**5** 11^{52} a	**5** 3^{52} p	**5** 7^{50} p	**5** 11^{48} p	**14** 3^{42} a	**14** 7^{48} a	**14** 11^{47} a	**14** 3^{48} p	**14** 7^{48} p	**14** 11^{45} p
2½	S 36 W 6	N 08 W 48	S 11 E 19	N 21 W 40	N 16 W 76	N 13 W 24	N 53 W 70	S 83 E 29	S 44 W 14	N 02 E 48	S 71 E 36	S 08 E 39
5	S 47 W 16	N 08 W 47	N 55 E 19	N 31 W 53	N 22 W 75	N 65 W 25	N 54 W 69	N 89 E 21	S 25 W 20	N 39 W 59	N 65 E 34	S 13 E 33
10	S 29 W 19	N 08 W 46	N 62 E 23	N 31 W 50	N 28 W 81	N 57 W 27	N 54 W 56	N 87 E 28	S 52 W 23	N 68 W 68	S 84 E 27	S 13 E 27
15	S 12 W 15	N 30 W 38	N 57 E 22	N 30 W 47	N 34 W 69	N 38 W 30	N 30 W 54	S 48 E 32	N 85 W 23	N 31 W 48	S 70 E 34	S 57 W 20
20	S 43 W 19	N 54 W 33	N 63 E 21	N 01 E 49	N 25 W 76	N 53 W 20	N 13 W 35	S 36 E 36	N 83 W 24	N 30 W 43	S 53 E 36	N 25 W 33
25	S 22 E 20	N 56 W 27	N 56 E 16	N 04 W 42	N 38 W 73	N 04 E 19	N 21 W 28	S 16 E 31	N 20 W 25	N 28 W 29	S 60 E 33	N 06 W 36
27½	S 44 E 10	N 54 W 26	S 21 E 24	N 19 W 44	N 19 W 63	N 76 E 16	N 26 W 28	S 06 E 30	N 10 W 27	N 10 W 23	S 42 E 31	N 04 W 38
30	S 16 E 14	N 54 W 26	S 27 E 17	N 20 W 42	N 28 W 72	N 86 E 18	N 51 W 21	S 13 E 33	N 04 W 22	N 14 W 10	S 28 E 30	N 04 E 39

	6 3^{50} a	**6** 7^{42} a	**6** 11^{48} a	**6** 3^{50} p	**6** 8^{52} p	**6** 11^{52} p	**15** 3^{47} a	**15** 7^{48} a	**15** 11^{45} a	**15** 3^{52} p	**15** 7^{48} p	**15** 11^{48} p
2½	N 43 W 25	N 14 W 46	N 08 E 32	N 08 E 34	N 23 W 67	N 09 W 26	N 47 E 36	S 58 E 48	S 18 E 70	N 28 W 25	S 43 E 80	S 43 E 76
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27½	S 20 E 30	N 39 W 43	N 50 E 22	N 20 W 43	N 28 W 57	N 33 W 15	N 13 W 48	S 01 E 33	S 84 E 34	N 05 W 31	S 20 E 36	N 80 E 35
30	S 36 E 26	N 42 W 40	N 55 E 21	N 16 W 33	N 25 W 49	N 25 W 14	N 31 W 43	S 50 E 32	S 76 E 33	N 20 W 30	S 05 E 23	N 78 E 29

	7 3^{48} a	**7** 7^{48} a	**7** 11^{45} a	**7** 3^{48} p	**7** 7^{45} p	**7** 11^{48} p	**16** 3^{50} a	**16** 7^{45} a	**16** 11^{47} a	**16** 3^{50} p	**16** 7^{45} p	**16** 11^{48} p
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	8 3^{45} a	**8** 7^{48} a	**8** 11^{48} a	**8** 3^{49} p	**8** 7^{48} p	**8** 11^{45} p	**17** 3^{48} a	**17** 7^{42} a	**17** 11^{50} a	**17** 3^{52} p	**17** 7^{45} p	**17** 11^{42} p
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	9 3^{50} a	**9** 7^{48} a	**9** 11^{48} a	**9** 3^{54} p	**9** 7^{48} p	**9** 11^{48} p	**18** 3^{48} a	**18** 7^{48} a	**18** 11^{52} a	**18** 3^{50} p	**18** 7^{48} p	**18** 11^{45} p
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	10 3^{44} a	**10** 7^{42} a	**10** 11^{45} a	**10** 3^{58} p	**10** 7^{48} p	**10** 11^{50} p	**19** 3^{49} a	**19** 7^{48} a	**19** 11^{50} a	**19** 3^{48} p	**19** 11^{48} p
2½	S 71 E 37	N 73 W 27	N 30 W 64	N 06 W 16	N 76 W 24	N 30 W108	N 30 W 21	N 01 W 29	N 85 E 29	N 02 E 24	S 08 E 25
5	S 86 E 39	S 84 W 32	N 32 W 52	N 16	N 74 W 32	N 37 W103	S 04 W 21	N 61 W 42	N 81 E 31	N 39 W 24	S 25 E 29
10	S 76 E 35	S 73 W 38	N 46 W 48	N 14 E 20	S 88 W 28	N 38 W 88	N 25	N 58 W 47	N 83 E 32	N 46 W 33	S 26 E 32
15	S 84 E 32	S 66 W 36	N 49 W 37	N 46 E 20	S 72 W 30	N 22 W 66	N 06 W 30	N 48 W 61	N 83 E 23	N 37 W 37	S 18 E 31
20	N 86 E 30	S 02 E 19	N 39 W 32	N 86 E 20	N 63 W 18	N 26 W 70	N 20 W 36	N 44 W 53	N 83 E 19	N 38 W 36	S 19 E 30
25	N 81 E 25	S 47 E 17	N 36 W 16	S 73 E 21	N 08 E 20	N 25 E 43	N 01 W 28	N 27 W 43	S 64 E 24	N 33 W 33	S 28 E 30
27½	N 73 E 20	S 59 E 17	N 36 W 15	S 66 E 20	N 04 E 23	N 25 E 39	N 13 E 27	N 26 W 35	S 68 E 28	N 33 W 34	S 36 E 30
30	N 74 E 22	S 79 E 20	N 34 W 24	S 66 E 19	N 22	N 25 E 36	N 03 W 20	N 33 W 39	S 54 E 22	N 32 W 35	S 28 E 36

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

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Meter	**20** 3^{50} a	**20** 7^{48} a	**20** 11^{48} a	**20** 3^{48} p	**20** 7^{48} p	**20** 11^{45} p	**29** 3^{46} a	**29** 7^{45} a	**29** 11^{53} a	**29** 3^{48} p	**29** 7^{45} p	**29** 11^{45} p
2½	S 77 W 19	N 12 E 59	N 77 E 39	N 21 E 24	N 20 E 70	N 72 E 14	N 20 W 36	N 27 E 24	N 62 E 32	N 16 E 37	S 77 E 7	S 27 E 20
5	S 42 W 13	N 12 W 63	N 69 E 28	S 82 E 24	N 18 W 79	S 75 E 16	N 06 W 53	N 35 E 23	N 70 E 32	N 24 W 39	S 70 E 7	S 30 E 24
10	S 09 W 33	N 35 W 53	N 44 E 21	N 34 E 29	N 44 W 77	N 66 E 15	N 20 W 51	N 60 E 26	S 75 E 20	N 39 W 52	S 73 E 7	S 28 E 32
15	S 82 E 27	N 38 W 53	N 43 E 21	N 32 E 28	N 45 W 63	N 54 E 18	N 26 W 37	N 83 E 22	E 9	N 39 W 49	S 57 E 11	S 26 E 34
20	S 60 E 28	N 34 W 58	N 54 E 15	N 17 W 32	N 20 W 61	N 26 W 19	N 26 W 32	S 81 E 13	N 64 E 7	N 39 W 50	S 60 E 10	S 31 E 33
25	S 04 W 22	N 08 W 33	N 39 E 20	N 15 W 31	N 43 W 53	N 05 W 18	N 26 W 32	S 20 E 16	N 46 W 4	N 43 W 46	S 56 E 13	S 12 E 25
27½	S 57 E 19	N 26 W 52	N 11 E 15	N 12 E 32	N 51 W 50	N 36 E 9	N 21 W 31	S 29 E 15	N 64 W 7	N 47 W 48	S 20 E 13	S 20
30	S 72 E 16	N 41 W 27	N 07 E 6	N 06 W 35	N 27 W 67	N 25 E 9	N 14 W 25	S 29 E 15	N 20 W 10	N 43 W 44	S 09 W 15	S 19 W 13
	21 3^{50} a	**21** 7^{45} a	**21** 11^{50} a	**21** 3^{50} p	**21** 7^{48} p	**21** 11^{48} p	**30** 3^{51} a	**30** 7^{48} a	**30** 11^{48} a	**30** 3^{50} p	**30** 7^{46} p	**30** 11^{45} p
2½	S 63 E 25	N 42 E 16	S 63 E 20	S 65 E 16	N 05 E 44	N 37 E 34	N 04 W 31	S 09 E 9	S 31 E 33	N 15 W 34	N 40 E 19	S 33 E 44
5	S 46 E 33	N 21 W 27	N 26 E 16	S 17 E 22	N 24 W 59	N 04 W 29	N 64 W 33	S 33 E 11	S 22 E 32	N 16 W 35	N 12 E 20	S 27 E 43
10	S 09 E 30	N 20 W 31	N 14 W 20	S 59 E 18	N 24 W 68	N 34 W 28	N 64 W 32	S 43 E 14	S 22 E 29	N 28 W 35	N 12 E 21	S 16 E 44
15	S 05 W 29	N 11 W 34	N 23 E 19	S 70 E 16	N 14 W 65	N 33 W 16	N 59 W 30	S 40 E 14	S 33 E 28	N 36 W 36	N 12 E 22	S 44
20	S 06 W 30	N 31 W 30	N 85 W 16	S 20 E 9	N 25 W 62	N 46 W 16	N 60 W 27	S 42 E 16	S 34 E 30	N 37 W 35	N 39 W 13	S 04 W 39
25	S 02 E 30	N 39 W 29	S 73 W 11	S 47 E 14	N 26 W 58	N 81 W 17	N 58 W 21	S 31 E 17	S 21 E 29	N 40 W 33	N 74 W 6	S 20 W 34
27½	S 01 E 32	N 35 W 27	N 29 W 10	S 48 E 12	N 28 W 53	S 80 W 18	N 20 W 13	S 26 E 20	S 21 E 28	N 42 W 30	S 56 W 9	S 02 E 33
30	S 26 E 24	N 48 W 30	N 73 W 13	S 60 E 10	N 29 W 44	S 85 W 17	N 06 W 12	S 25 E 24	S 21 E 23	N 35 W 27	S 51 W 18	S 04 E 30
	22 3^{48} a	**22** 7^{45} a	**22** 11^{45} a	**22** 3^{48} p	**22** 7^{48} p	**22** 11^{46} p	**1** 3^{51} a	**1** 7^{44} a	**1** 11^{48} a	**1** 3^{48} p	**1** 7^{48} p	**1** 11^{48} p
2½	S 23 E 40	N 09 E 11	N 03 E 30	S 73 E 46	N 24 W 29	N 20 W 39	0	N 73 W 6	S 49 E 36	S 82 W 25	N 17 W 11	S 51 E 48
5	S 31 E 44	N 08 W 16	N 01 E 34	S 65 E 48	N 33 W 31	N 20 W 46	S 70 E 20	N 39 E 7	S 60 E 38	N 02 W 33	N 43 W 31	S 51 E 69
10	S 38 E 43	N 50 W 13	N 25 W 20	S 40 E 40	N 35 W 36	N 30 W 47	N 38 W 25	N 10 W 11	S 56 E 37	N 12 W 32	N 16 W 42	S 44 E 67
15	S 29 E 45	N 22 W 18	N 34 W 20	S 17 E 36	N 29 W 43	N 34 W 44	N 45 W 25	N 20 W 20	S 31 E 36	N 10 W 38	N 38 W 54	S 31 E 65
20	S 03 E 43	N 30 W 13	N 80 W 13	S 16 E 33	N 26 W 45	N 46 W 33	N 61 W 20	N 25 E 15	S 30 E 34	N 31 W 50	N 43 W 56	S 36 E 52
25	S 26 E 41	N 36 W 9	N 88 W 8	S 21 E 33	N 28 W 48	N 46 W 32	N 36 W 24	S 65 E 15	S 26 E 33	N 12 W 49	N 30 W 48	S 24 E 50
27½	S 42 E 43	N 25 W 9	S 71 W 8	S 24 E 32	N 30 W 49	N 52 W 26	N 30 W 14	S 33 E 12	S 20 E 33	N 12 W 48	N 28 W 46	S 15 W 53
30	S 26 E 45	N 26 W 9	S 64 W 8	S 31 E 23	N 30 W 45	N 54 W 23	N 45 W 14	S 37 E 13	S 08 E 33	N 26 W 47	N 55 W 42	S 05 E 50
	23 3^{48} a	**23** 7^{45} a	**23** 11^{48} a	**23** 3^{49} p	**23** 7^{44} p	**23** 11^{44} p	**2** 3^{50} a	**2** 7^{48} a	**2** 11^{46} a	**2** 3^{48} p	**2** 7^{42} p	**2** 11^{47} p
2½	S 45 E 48	N 47 W 19	N 14 W 45	S 83 E 42	N 23 W 11	N 32 W102	N 23 W 19	N 22 E 11	S 73 E 29	N 18 W 30	N 59 W 70	S 08 E 16
5	S 35 E 47	N 45 W 13	N 20 W 36	S 77 E 51	N 23 W 11	N 10 W 98	N 19 W 24	N 31 W 16	S 61 E 31	N 19 W 34	N 58 W 69	S 25
10	S 37 E 46	N 52 W 10	N 20 W 23	S 70 E 53	N 24 W 19	N 24 W 58	N 20 W 28	N 45 W 23	S 40 E 32	N 22 W 33	N 47 W 72	S 47 E 32
15	S 25 E 45	S 47 E 2	N 46 W 12	S 55 E 49	N 55 W 15	N 29 W 57	N 04 W 31	N 45 W 28	S 45 E 34	N 26 W 32	N 40 W 70	S 31 E 33
20	S 25 E 44	S 47 E 2	N 44 W 12	S 53 E 44	N 14 W 22	N 75 W 36	N 10 W 33	N 47 W 33	S 51 E 37	N 35 W 31	N 30 W 72	S 15 W 30
25	S 24 E 43	S 47 E 2	N 71 W 10	S 46 E 42	N 09 W 22	N 52 W 58	N 25 W 33	N 60 W 33	S 58 E 38	N 35 W 28	N 28 W 43	S 05 W 27
27½	S 24 E 43	S 47 E 2	N 59 W 12	S 44 E 40	N 11 W 19	N 43 W 66	N 42 W 31	N 50 W 25	S 58 E 43	N 50 W 34	N 42 W 42	S 03 E 21
30	S 24 E 42	S 47 E 2	N 76 W 10	S 40 E 39	N 15 E 21	N 10 W 68	N 52 W 28	N 45 W 20	S 66 E 45	N 53 W 34	N 42 W 20	S 32 E 18
	24 3^{48} a	**24** 7^{48} a	**24** 11^{51} a	**24** 3^{48} p	**24** 7^{42} p	**24** 11^{45} p	**3** 3^{38} a	**3** 7^{45} a	**3** 11^{48} a	**3** 3^{50} p	**3** 7^{42} p	**3** 11^{48} p
2½	N 54 E 34	S 22 W 16	N 13 W 45	N 75 E 24	S 71 E 19	N 23 W 43	S 89 W 30	N 68 W 49	S 25 E 14	N 79 W 44	N 63 W 64	S 08 E 24
5	N 75 E 20	S 25 E 16	N 35 W 49	N 78 E 21	S 75 E 19	N 50 W 53	S 89 W 25	N 70 W 48	S 53 E 24	N 75 W 45	N 46 W 71	N 56 E 24
10	N 73 E 25	S 25 E 18	N 47 W 49	N 82 E 22	E 12	N 41 W 50	S 69 W 29	N 52 W 48	S 63 E 33	N 66 W 46	N 49 W 77	N 82 E 38
15	N 79 E 26	S 54 E 15	N 46 W 43	N 80 E 17	N 68 E 6	N 45 W 45	S 71 W 31	N 45 W 49	S 50 E 36	N 74 W 42	N 45 W 74	S 12 E 64
20	N 86 E 18	S 34 E 14	N 35 W 38	S 87 E 16	N 70 E 6	N 37 W 47	N 84 W 30	N 39 W 47	S 39 E 43	N 70 W 34	N 17 W 55	S 15 E 57
25	S 50 E 13	S 40 E 14	N 38 W 31	S 63 E 16	N 79 W 3	N 37 W 48	N 64 W 30	N 28 W 43	S 34 E 39	N 56 W 33	N 11 W 36	S 09 E 55
27½	S 04 W 15	S 40 E 14	N 38 W 24	S 54 E 16	N 79 W 3	N 41 W 44	N 40 W 31	N 10 W 41	S 33 E 34	N 34 W 31	N 14 W 19	S 11 E 54
30	S 25 W 16	S 44 E 14	N 38 W 20	S 10 E 15	N 79 W 3	N 34 W 37	N 26 W 29	N 66 W 28	S 40 E 33	N 27 W 31	N 45 W 9	S 24 E 30
	25 3^{49} a	**25** 7^{46} a	**25** 11^{48} a	**25** 3^{50} p	**25** 7^{48} p	**25** 11^{42} p	**4** 3^{48} a	**4** 7^{45} a	**4** 11^{48} a	**4** 3^{52} p	**4** 7^{45} p	**4** 11^{48} p
2½	N 32 E 20	S 70 E 16	N 08 W 36	N 20 E 24	S 75 E 25	N 27 W 37	S 42 W 25	N 43 W 70	S 53 E 16	S 52 W 30	N 46 W 59	S 50 E 14
5	N 04 W 13	S 43 E 20	N 21 W 39	N 28 E 29	S 71 E 33	N 31 W 37	S 45 W 25	N 40 W 69	S 85 E 24	S 60 W 23	N 33 W 67	N 59 E 25
10	N 34 E 14	S 02 E 21	N 32 W 31	N 26 E 26	S 52 E 38	N 44 W 38	S 40 W 28	N 40 W 55	S 88 E 33	S 86 W 20	N 30 W 65	N 78 E 31
15	S 14 W 12	S 09 W 22	N 32 W 28	N 14 E 20	S 40 E 35	N 44 W 37	S 38 W 27	N 29 W 43	N 82 E 37	N 87 W 22	N 33 W 69	S 65 E 34
20	S 21 W 12	S 04 E 21	N 29 W 27	N 15 W 11	S 39 E 30	N 19 W 41	S 35 W 19	N 30	N 85 E 36	N 72 W 25	N 25 W 62	S 35 E 27
25	S 24 W 16	S 14 E 23	N 16 W 20	S 20 W 6	S 39 E 29	N 24 W 41	N 36 E 20	N 14 E 30	S 76 E 33	N 61 W 24	N 09 W 56	S 22 E 37
27½	S 19 W 20	S 18 E 23	N 10 E 10	S 08 W 18	S 41 E 29	N 32 W 38	N 42 E 22	N 02 E 23	S 58 E 34	N 57 W 27	N 14 W 48	S 21 E 35
30	S 05 W 20	S 27 E 22	N 19 W 12	S 15 E 19	S 44 E 28	N 17 W 30	N 44 E 28	N 63 W 10	S 40 E 33	N 63 W 26	N 06 W 48	S 18 E 36
	26 3^{48} a	**26** 7^{45} a	**26** 11^{45} a	**26** 3^{45} p	**26** 7^{48} p	**26** 11^{48} p	**5** 3^{38} a	**5** 7^{48} a	**5** 11^{50} a	**5** 3^{50} p	**5** 7^{48} p	**5** 11^{50} p
2½	N 25 W 40	S 75 E 26	N 10 W 37	N 28 W 33	S 78 E 16	N 03 W 24	S 15 W 40	N 44 W 51	S 53 E 53	S 10 W 30	N 19 W 46	0
5	N 30 W 39	S 57 E 36	N 07 W 37	N 45 W 59	S 73 E 20	N 33 W 34	S 13 W 39	N 61 W 59	S 79 E 48	S 13 W 29	N 64 W 59	0
10	N 31 W 31	S 26 E 43	N 14 W 31	N 43 W 44	S 65 E 25	N 38 W 33	S 15 W 34	N 81 W 39	S 76 E 30	S 18 W 32	N 61 W 57	0
15	N 20 W 21	S 26 E 51	N 17 W 29	N 43 W 49	S 63 E 24	N 42 W 36	S 06 E 25	N 70 W 33	S 65 E 36	S 29 W 33	N 46 W 61	S 37 W 7
20	N 78 W 14	S 22 E 56	N 56 W 24	N 50 W 25	S 34 E 31	N 44 W 33	S 20 E 21	N 16 E 33	S 62 E 35	S 34 W 25	N 38 W 53	S 40 W 7
25	N 76 W 11	S 02 E 70	N 40 W 26	N 57 W 30	S 32 E 35	N 44 W 34	S 81 E 14	N 27 E 24	S 46 E 38	S 17	N 26 W 41	S 10 W 20
27½	S 43 W 16	S 03 E 40	N 56 W 27	N 54 W 24	S 26 E 37	N 38 W 33	S 46 E 11	N 41 E 26	S 38 E 42	N 85 E 7	N 34 W 40	S 34 W 23
30	S 32 W 17	S 14 E 34	N 45 W 20	S 65 W 19	S 15 E 40	N 31 W 28	S 75 E 13	N 41 E 25	S 29 E 41	N 68 E 27	N 34 W 39	S 20 W 29
	27 3^{50} a	**27** 7^{48} a	**27** 11^{50} a	**27** 3^{52} p	**27** 7^{49} p	**27** 11^{48} p	**6** 3^{38} a	**6** 7^{42} a	**6** 11^{50} a	**6** 3^{52} p	**6** 7^{48} p	**6** 11^{48} p
2½	N 53 W 66	S 53 E 24	N 35 W 56	N 21 E 40	S 89 E 37	N 11 W 14	S 07 W 61	N 55 W 33	S 72 E 33	S 55 E 40	N 71 W 19	0
5	N 51 W 71	S 46 E 20	N 38 W 55	N 15 W 46	S 87 E 41	N 12 W 14	S 07 W 69	N 65 W 32	S 83 E 43	S 75 E 45	N 63 W 20	0
10	N 50 W 72	S 27 E 18	N 60 W 49	N 26 W 44	S 75 E 32	N 16 W 15	S 01 W 69	N 73 W 38	S 77 E 38	S 78 E 44	N 46 W 20	0
15	N 53 W 70	S 27 E 21	N 48 W 40	N 29 W 49	S 75 E 30	N 03 W 19	S 06 W 53	S 86 W 30	S 44 E 29	S 82 E 39	N 36 W 20	S 03 E 16
20	N 55 W 56	S 29 E 21	N 35 W 30	N 18 W 48	S 60 E 29	N 01 W 22	S 02 E 56	N 54 W 21	S 32 E 30	E 35	N 28 W 18	S 26 E 24
25	N 37 W 44	S 31 E 21	N 34 W 25	N 30 W 38	S 53 E 29	N 10 W 27	S 39 E 27	N 43 W 9	S 22 E 37	N 46 E 29	N 26 W 16	S 10 E 31
27½	N 36 W 33	S 38 E 21	N 17 W 25	N 40 W 29	S 40 E 27	N 11 W 25	S 50 E 19	N 40 W 9	S 11 E 39	N 35 E 26	N 06 W 13	S 28
30	N 35 W 22	S 33 E 20	N 07 W 23	N 55 W 24	S 26 E 21	N 08 W 27	S 52 E 21	N 09 E 4	S 20 E 33	N 32 E 26	N 08 W 13	S 10 E 27
	28 3^{48} a	**28** 7^{45} a	**28** 11^{48} a	**28** 3^{55} p	**28** 7^{46} p	**28** 11^{45} p	**7** 3^{50} a	**7** 7^{48} a	**7** 11^{42} a	**7** 3^{46} p	**7** 7^{42} p	**7** 11^{48} p
2½	N 22 W 40	S 69 E 40	0	N 13 W 27	N 82 E 33	N 81 E 29	S 15 E 59	N 51 W 22	N 52 E 11	S 43 E 40	N 45 W 48	N 36 W 53
5	N 30 W 46	S 67 E 44	0	N 11 W 30	N 82 E 38	S 86 E 37	S 23 E 67	N 63 W 27	E 19	S 43 E 53	N 55 W 54	N 38 W 52
10	N 38 W 47	S 65 E 44	S 71 W 9	N 11 W 32	S 70 E 36	S 50 E 30	S 27 E 71	N 64 W 22	N 80 E 18	S 43 E 30	N 35 W 57	N 49 W 44
15	N 39 W 43	S 60 E 43	0	N 28 W 42	S 75 E 31	S 41 E 27	S 34 E 69	N 41 W 13	N 78 E 14	S 30 E 23	N 45 W 55	N 70 W 27
20	N 36 W 37	S 61 E 44	N 04 E 11	N 26 W 37	S 70 E 37	S 27 E 19	S 30 E 72	S 20 W 21	S 33 E 10	S 29 E 18	N 58 W 49	N 59 W 18
25	N 30 W 29	S 60 E 45	N 15 E 14	N 26 W 33	S 63 E 36	S 51 E 11	S 30 E 70	S 16 E 18	S 26 E 18	S 88 E 19	N 59 W 40	N 59 W 18
27½	N 45 W 22	S 50 E 46	N 60 E 16	N 23 W 28	S 43 E 33	N 66 E 6	S 30 E 59	S 66 E 16	S 08 E 20	N 78 E 18	N 44 W 40	N 68 W 16
30	N 43 W 21	S 34 E 45	N 54 E 16	N 21 W 24	S 34 E 31	N 08 E 6	S 07 E 53	S 80 E 20	S 07 E 23	N 80 E 19	N 44 W 34	N 68 W 16

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	8 3³⁸ a	8 7⁴⁵ a	8 11⁴⁸ a	8 3⁵⁰ p	8 7⁴² p	8 11⁴⁰ p
2½	S 33 E 36	S 77 W 21	N 71 E 19	S 46 E 48	N 12 W 20	N 14 E 25
5	S 23 E 48	W 22	S 66 E 30	S 40 E 58	N 56 W 29	N 16 W 33
10	S 13 E 43	N 87 W 25	N 76 E 38	S 43 E 57	N 69 W 43	N 39 W 45
15	S 10 E 34	N 74 W 28	S 81 E 32	S 25 E 55	N 63 W 47	N 24 W 50
20	S 14 W 28	N 60 W 31	S 68 E 20	S 41 E 48	N 33 W 49	N 34 W 43
25	S 15 W 27	N 65 W 33	S 05 E 14	S 58 E 35	N 18 W 49	N 46 W 38
27½	S 19 W 24	N 60 W 35	S 05 E 14	S 88 W 16	N 15 W 49	N 47 W 33
30	S 09 W 18	N 57 W 35	S 16 E 13	N 39 W 19	N 16 W 46	N 46 W 33

	9 3⁴⁶ a	9 7⁴⁵ a	9 11⁴⁵ a	9 3⁴⁸ p	9 7⁴⁵ p	9 11⁴² p
2½	S 35 E 53	S 52 W 53	N 30 W 25	S 42 E 70	N 83 W 20	N 36 W 70
5	S 27 E 45	S 65 W 45	N 26 W 29	S 35 E 79	N 85 W 25	N 45 W 79
10	S 33 E 50	S 79 W 44	N 17 W 32	S 43 E 31	N 62 W 24	N 45 W 54
15	S 33 E 35	N 25 W 24	N 15 W 35	S 29 E 31	N 50 W 23	N 31 W 36
20	S 33 E 27	N 20 W 20	N 12 W 33	S 29 E 30	N 26 W 29	N 30 W 36
25	S 17 E 20	N 01 W 15	N 56 W 28	S 20 E 37	N 04 W 33	N 44 W 27
27½	S 17 E 20	N 01 W 15	N 54 W 24	S 35 E 29	N 01 W 35	N 48 W 27
30	S 14 E 17	N 49 E 21	N 77 W 22	S 49 E 34	N 10 E 35	N 81 W 21

	10 3⁴⁰ a	10 7⁴⁶ a	10 11⁴⁴ a	10 3⁵⁰ p	10 7⁴⁸ p	10 11⁴⁵ p
2½	S 75 E 40	S 14 W 33	N 16 W 66	N 70 E 68	S 29 E 32	N 27 W 68
5	S 73 E 39	S 34 W 39	N 30 W 65	S 78 E 58	S 45 E 32	N 29 W 67
10	S 70 E 35	S 32 W 38	N 34 W 56	S 54 E 53	S 35	N 31 W 69
15	S 37 E 37	S 31 W 34	N 39 W 50	S 39 E 52	S 64 W 23	N 27 W 66
20	S 26 E 30	S 04 E 17	N 28 W 44	S 41 E 43	N 46 E 24	N 18 W 51
25	S 04 W 21	S 50 E 15	N 25 W 35	S 24 E 37	N 54 E 34	N 21 W 44
27½	S 02 E 20	S 55 E 18	N 22	S 15 E 38	N 52 E 34	N 05 W 40
30	S 15 E 29	S 66 E 19	S 30 E 19	S 32	N 49 E 32	N 02 E 32

	11 3³⁸ a	11 7⁴² a	11 11⁴⁸ a	11 3⁵² p	11 7⁴⁸ p	11 11⁴⁵ p
2½	N 04 E 34	N 79 E 25	N 43 W 40	N 13 W 34	N 87 E 25	N 38 W 33
5	N 04 W 34	S 55 E 25	N 40 W 45	N 06 W 33	S 88 E 29	N 12 W 57
10	S 80 E 20	S 86 E 32	N 44 W 44	N 02 W 40	S 71 E 31	N 40 W 44
15	S 35 E 14	S 56 E 36	N 46 W 49	N 10 E 25	S 35 W 26	N 51 W 45
20	S 02 E 15	S 01 W 24	N 48 W 50	S 81 E 9	S 67 W 21	N 36 W 54
25	S 22 W 18	S 47 W 22	N 31 W 49	N 61 W 4	S 70 W 19	N 57 W 52
27½	S 35 W 13	S 62 W 17	N 16 W 38	W 12	N 54 E 15	N 35 W 50
30	S 31 W 16	S 34 W 15	N 24 E 31	S 55 W 16	N 40 E 11	N 51 W 50

	12 3⁴⁴ a	12 7⁴⁸ a	12 11⁴² a	12 3⁴⁶ p	12 7⁴² p	12 11⁴⁶ p
2½	N 41 W 48	S 48 E 25	N 53 W 37	N 49 W 37	S 61 E 25	N 41 W 33
5	N 43 W 47	S 42 E 30	N 50 W 45	N 47 W 43	S 63 E 25	N 32 W 32
10	N 45 W 43	S 30 E 35	N 34 W 37	N 47 W 41	S 42 E 32	N 33 W 27
15	N 31 W 36	S 20 E 41	N 57 W 30	N 45 W 33	S 30 E 52	N 37 W 22
20	N 16 W 35	S 10 E 41	N 48 W 29	N 46 W 23	S 10 E 44	N 19 W 30
25	N 16 W 31	S 10 E 31	N 15 W 36	N 45 W 12	S 18 E 42	N 07 E 23
27½	N 07 W 25	S 16 E 28	N 18 E 33	N 65 W 7	S 15 E 34	N 17 W 30
30	N 23 W 17	S 17 E 28	N 42 E 31	S 79 W 14	S 28 E 33	N 06 W 30

	13 3³⁸ a	13 7⁴⁴ a	13 11⁵² a	13 3⁴⁸ p	13 7⁴⁸ p	13 11⁴² p
2½	N 14 E 64	S 73 E 37	N 43 W 33	N 43 W 70	N 50 E 29	N 48 W 11
5	N 14 E 69	S 67 E 39	N 39 W 53	N 45 W 58	N 81 E 32	N 43 W 11
10	N 24 E 67	S 60 E 43	N 40 W 44	N 43 W 60	S 86 E 33	N 84 W 16
15	N 20 E 53	S 41 E 44	N 27 W 25	N 54 W 65	S 74 E 40	S 35 E 24
20	N 30 E 62	S 33 E 43	N 26 W 30	N 30 W 28	S 46 E 34	N 60 E 16
25	N 06 E 24	S 30 E 44	N 07 W 32	N 42 W 27	S 55 E 35	N 30 W 16
27½	N 11 E 30	S 23 E 45	N 09 E 24	N 25 W 27	S 48 E 30	N 16 E 14
30	N 15 W 20	S 33 E 46	N 06 W 27	N 23 W 18	S 50 E 27	N 05 E 19

	14 3⁴⁸ a	14 7⁴² a	14 11⁴⁴ a	14 3⁵² p	14 7⁴⁴ p	14 11⁴⁸ p
2½	N 40 W 70	N 74 E 25	S 21 E 16	N 29 W 68	N 80 E 25	N 87 W 11
5	N 30 W 58	N 39 E 33	S 23 E 19	N 31 W 62	N 63 E 30	S 07 E 27
10	N 38 W 77	N 54 E 31	S 15 E 18	N 40 W 62	S 83 E 33	S 04 W 32
15	N 44 W 42	S 69 E 34	S 04 W 20	N 43 W 62	S 81 E 38	S 09 W 38
20	N 29 W 41	S 38 E 38	S 01 W 21	N 28 W 40	S 73 E 37	S 06 E 37
25	N 31 W 33	S 33 E 45	S 16 W 23	N 22 W 30	S 64 E 36	S 24 E 35
27½	N 43 W 21	S 18 E 44	S 36 W 20	N 21 W 17	S 21 E 31	S 39 E 34
30	N 16 W 18	S 10 E 37	S 46 W 16	N 14 W 17	S 02 E 30	S 52 E 33

	15 3³⁸ a	15 7⁴⁸ a	15 11⁴⁸ a	15 3⁵⁰ p	15 7⁴⁸ p	15 11⁴⁴ p
2½	N 22 W 53	N 07 W 21	S 68 E 11	N 23 W 59	N 32 E 16	S 69 E 45
5	N 22 W 47	N 13 E 36	S 03 E 19	N 26 W 67	N 09 E 21	S 70 E 47
10	N 23 W 51	N 25 E 31	S 04 E 35	N 27 W 67	N 09 E 33	S 76 E 46
15	N 45 W 45	S 28 E 21	S 26 E 40	N 45 W 69	N 13 W 37	S 81 E 49
20	N 37 W 16	S 10 E 27	S 05 W 26	N 55 W 69	N 66 W 21	S 76 E 47
25	N 20 W 16	S 14 W 27	S 74 E 15	N 36 W 57	S 64 W 16	N 86 E 43
27½	N 20 W 16	S 12 W 30	S 88 E 16	N 15 W 41	S 44 W 20	N 82 E 42
30	N 20 W 16	S 14 W 29	N 55 E 16	N 19 W 30	S 41 W 22	S 79 E 38

	16 3³⁸ a	16 7⁴² a	16 11⁴⁴ a	16 3⁴⁸ p	16 7⁴⁸ p	16 11⁴² p
2½	N 56 W 37	N 05 W 40	S 23 E 66	N 50 W 70	N 30 W 49	S 53 E 59
5	N 61 W 41	N 02 W 37	S 26 E 58	N 50 W 69	N 23 W 42	S 53 E 69
10	N 71 W 38	N 14 W 35	S 30 E 63	N 51 W 55	N 34 W 37	S 44 E 56
15	N 57 W 25	N 50 W 12	S 34 E 49	N 50 W 35	N 49 W 17	S 30 E 54
20	N 44 W 14	S 19 W 12	S 38 E 44	N 36 W 29	S 86 W 19	S 19 E 53
25	N 32 E 11	S 36 W 10	S 35 E 37	N 30	S 81 W 19	S 20 E 40
27½	N 46 E 20	S 48 W 8	S 32 E 26	N 07 E 31	S 85 W 21	S 28 E 34
30	N 37 E 19	S 38 W 10	S 47 E 27	N 30	S 74 W 22	S 24 E 32

	17 3⁴⁸ a	17 7⁴⁸ a	17 11⁴⁸ a	17 4⁰⁰ p	17 7⁴⁰ p	17 11⁴⁰ p
2½	S 57 W 40	N 24 W 44	S 38 E 70	N 86 W 70	N 58 W 39	S 32 E 70
5	S 40 W 43	N 24 W 50	S 60 E 62	N 73 W 69	N 44 W 54	S 47 E 84
10	S 42 W 42	N 19 W 51	S 86 E 64	N 67 W 56	N 43 W 68	S 57 E 66
15	S 40 W 43	N 45 W 33	S 50 E 55	N 26 W 32	N 51 W 44	S 31 E 74
20	S 56 W 42	S 23 E 12	S 36 E 46	N 12 E 35	N 40 W 30	S 27 E 71
25	S 67 W 33	S 23 E 12	S 36 E 41	N 05 E 46	N 50 W 23	S 32 E 62
27½	S 67 W 23	S 56 W 15	S 30 E 33	N 08 W 36	N 66 W 29	S 24 E 68
30	N 84 W 17	S 40 W 21	S 33 E 32	N 16 W 44	N 83 W 30	S 14 E 57

	18 3⁴² a	18 7⁴⁵ a	18 11⁴² a	18 3⁴⁹ p	18 7⁴⁸ p	18 11⁴² p
2½	S 37 W 46	N 21 W 33	S 57 E 70	N 54 W 11	N 33 W 80	N 84 E 33
5	S 45 W 53	N 20 W 37	S 50 E 69	N 44 W 14	N 46 W 79	N 53 E 46
10	S 48 W 50	N 23 W 36	S 57 E 73	N 41 W 26	N 48 W 78	S 78 E 38
15	S 45 W 48	N 44 E 39	S 56 E 64	N 33 W 28	N 32 W 71	S 33 E 24
20	S 36 E 45	N 53 E 38	S 42 E 51	N 27 W 30	N 30 W 42	S 29 E 29
25	S 53 E 52	N 69 E 35	S 43 E 54	N 19 W 32	N 27 W 36	S 08 W 29
27½	S 50 E 53	N 78 E 29	S 40 E 48	N 25 E 33	N 36 W 33	S 20 E 26
30	S 48 E 52	S 88 E 21	S 44 E 47	N 28 E 34	N 39 W 33	S 26 E 25

	19 3⁴⁰ a	19 7⁴² a	19 11⁴⁶ a	19 3⁴⁸ p	19 7⁴⁴ p	19 11⁴⁹ p
2½	S 06 W 43	N 63 W 40	N 37 E 46	S 01 W 30	N 46 W 74	N 28 W 44
5	S 10 W 39	N 61 W 53	N 33 E 45	S 81 E 24	N 49 W 75	N 28 W 47
10	S 05 W 42	N 28 W 37	N 60 E 37	S 76 E 33	N 50 W 68	N 16 W 39
15	S 40 E 26	N 09 E 11	N 89 E 25	S 55 W 13	N 38 W 64	S 33 W 7
20	S 24 E 21	N 20 E 12	S 54 E 27	N 20 W 20	N 23 W 57	S 39 W 11
25	S 56 E 21	S 34 W 7	S 43 E 30	N 24	N 07 W 57	S 59 W 14
27½	N 60 E 10	S 58 W 3	S 40 E 30	N 02 E 30	N 04 W 49	S 18 W 19
30	N 06 W 11	S 19 W 10	S 34 E 29	N 04 W 32	N 26 W 36	S 50 W 20

	20 3³⁹ a	20 7³⁹ a	20 11⁴⁸ a	20 3³⁸ p	20 7⁴⁸ p	20 11⁴⁴ p
2½	S 19 W 36	N 83 W 59	N 51 W 32	S 20 W 34	N 45 W 80	N 14 W 45
5	S 66 E 32	N 67 W 70	N 23 W 36	S 05 E 33	N 53 W 68	N 17 W 47
10	S 13 E 48	N 52 W 60	N 40 E 32	S 50 E 36	N 53 W 59	N 09 W 47
15	S 02 E 30	N 59 W 50	S 4	S 48 E 33	N 42 W 57	N 05 W 49
20	S 08 W 20	N 42 W 30	S 02 W 25	S 48 E 31	N 19 W 68	N 48
25	S 20	N 50 E 24	S 01 E 24	S 47 E 19	N 30 W 49	N 07 W 43
27½	S 12 W 26	N 30 E 14	S 24	S 39 E 7	N 16 W 48	N 24 W 40
30	S 20 W 19	S 88 E 8	S 25 E 24	N 33 E 8	N 16 W 48	N 46 W 37

	21 3⁴⁵ a	21 7⁴⁵ a	21 11⁴⁸ a	21 3⁴⁸ p	21 7³⁸ p	21 11⁴⁸ p
2½	S 28 E 36	N 55 W 40	N 23 W 40	S 53 E 48	N 53 W 53	N 66 W 36
5	S 52 E 76	N 46 W 30	N 26 W 39	S 60 E 58	N 39 W 58	N 48 W 36
10	S 52 E 77	N 65 W 31	N 14 W 38	S 52 E 34	N 33 W 51	N 43 W 41
15	S 19 E 35	N 53 W 26	N 05 W 34	S 41 E 34	N 23 W 37	N 30 W 47
20	S 07 W 25	N 29 W 22	N 07 W 30	S 40 E 27	N 20 W 51	N 23 W 34
25	S 11 W 22	N 13 W 26	N 10 W 30	S 20 E 18	N 04 W 43	N 61 W 33
27½	S 36 W 18	N 22	N 50 W 20	S 53 E 27	N 03 E 30	N 82 W 25
30	S 45 W 19	N 18	N 66 W 16	S 64 E 26	N 05 W 34	N 60 W 18

	22 3⁴⁴ a	22 7⁴⁴ a	22 11⁴⁴ a	22 4⁰⁰ p	22 7⁴⁸ p	22 11³⁸ p
2½	S 43 E 66	S 52 W 37	N 16 W 21	S 37 E 80	S 47 W 21	N 23 W 46
5	S 56 E 67	S 75 W 37	N 32 W 24	S 47 E 83	S 77 W 33	N 19 W 45
10	S 38 E 65	S 74 W 46	N 45 W 20	S 52 E 54	S 85 W 32	N 23 W 42
15	S 34 E 52	N 86 W 31	S 62 W 19	S 45 E 64	N 40 E 18	N 16 W 39
20	S 43 E 44	S 72 W 29	S 47 W 14	S 55 E 51	N 15 E 20	N 21 W 32
25	S 48 E 37	N 41 E 22	S 31 W 14	S 31 E 49	N 55 E 22	N 25 W 18
27½	S 24 E 37	N 60 E 18	S 16 W 11	S 33 E 54	N 41 E 29	N 47 W 13
30	S 16 E 35	N 70 E 33	S 05 W 11	S 24 E 47	N 40 E 31	N 55 W 22

	23 3⁴⁵ a	23 7⁴⁴ a
2½	S 65 E 46	S 43 W 24
5	S 53 E 69	S 41 W 25
10	S 42 E 50	S 44 W 26
15	S 30 E 48	S 56 W 27
20	S 18 E 38	S 55 W 31
25	S 18 E 37	S 04 W 12
27½	S 20 E 36	S 34 E 6
30	S 19 E 34	S 85 E 20

	24 11⁴⁸ a	24 3⁵⁵ p	24 7⁴⁴ p	24 11⁴⁵ p
2½	N 49 W 59	S 67 E 36	S 20 W 50	N 59 W 66
5	N 50 W 58	S 75 E 42	S 14 E 52	N 52 W 58
10	N 66 W 53	S 54 E 41	S 20 E 44	N 53 W 38
15	N 63 W 46	S 24 E 30	S 18 E 40	N 34 W 27
20	N 80 W 38	S 14 E 33	S 54 E 33	N 21 W 21
25	N 71 W 30	S 05 W 24	S 75 E 28	N 18 W 18
27½	N 60 W 29	S 02 W 24	S 74 E 22	N 35 W 17
30	N 42 W 20	S 11 W 21	S 89 E 20	N 50 W 12

	25 3³⁸ a	25 7⁴² a	25 11⁴⁸ a	25 3⁵⁰ p	25 7⁴⁸ p	25 11⁴⁴ p
2½	N 17 W 25	S 35 E 48	N 48 W 59	N 08 W 21	S 25 W 44	N 36 W 49
5	N 25 W 25	S 37 E 55	N 44 W 54	N 49 E 16	S 24 E 48	N 39 W 49
10	N 62 W 10	S 26 E 57	N 53 W 46	N 18 W 16	S 25 E 54	N 40 W 45
15	S 30 E 3	S 29 E 52	N 60 W 33	N 80 W 16	S 18 E 46	N 48 W 36
20	S 16 E 17	S 28 E 43	N 35 W 18	S 77 W 16	S 24 E 40	N 55 W 32
25	S 20 W 17	S 33 E 40	N 15 W 18	N 85 W 10	S 24 E 32	N 61 W 25
27½	S 26 W 20	S 31 E 28	N 35 W 26	S 70 W 10	S 21 E 31	N 80 W 18
30	S 11 W 21	S 36 E 9	N 03 E 18	S 44 W 16	S 19 E 24	W 13

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

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Meter	26 3^{46} a	26 7^{44} a	26 11^{40} a	26 3^{48} p	26 7^{42} p	26 11^{48} p	4 4^{00} a	4 7^{58} a	4 11^{58} a	4 4^{00} p	4 7^{58} p	4 12^{00} p
2½	N 51 W 80	S 63 E 25	N 45 W 43	N 22 W 46	N 55 E 16	N 46 W 16	0	N 77 W 19	S 72 E 20	N 76 W 30	N 53 W 76	N 78 W 20
5	N 47 W 75	S 62 E 33	N 47 W 39	N 44 W 53	N 84 E 9	N 77 W 25	S 70 E 6	N 75 W 16	S 81 E 20	N 13 W 16	N 50 W 62	N 69 E 22
10	N 14 W 52	S 82 E 36	N 65 W 45	N 42 W 57	N 69 E 11	N 88 W 24	0	N 72 W 23	S 85 E 39	N 18 W 20	N 45 W 44	N 75 E 16
15	N 65 W 35	S 50 E 30	N 58 W 44	N 58 W 49	N 63 E 20	S 82 W 20	S 51 E 11	N 75 W 33	E 38	N 81 E 25	N 44 W 73	S 70 E 23
20	N 84 W 35	S 46 E 37	N 54 W 43	N 59 W 44	N 65 E 18	N 50 W 20	S 28 E 19	N 74 W 24	S 75 E 50	S 55 E 30	N 47 W 57	S 70 E 39
25	N 70 W 29	S 40 E 36	N 40 W 42	N 66 W 43	S 89 E 9	N 29 W 20	S 31 E 22	S 80 E 16	S 55 E 56	S 54 E 32	N 34 W 27	S 57 E 55
27½	N 85 W 27	S 20 E 37	N 37 W 47	N 69 W 29	S 01 E 12	N 30 W 23	S 31 E 22	S 80 E 21	S 49 E 54	S 55 E 33	N 27 W 21	S 30 E 48
30	S 46 W 32	S 16 E 29	N 34 W 39	N 71 W 29	S 25 W 10	N 33 W 20	S 44 E 22	S 35 E 29	S 56 E 54	S 57 E 36	N 15 W 13	S 26 E 65
5'	27 3^{48} a	27 7^{49} a	27 11^{45} a	27 7^{42} p	27 3^{39} p	27 11^{38} p	5 3^{59} a	5 8^{00} a	5 11^{58} a	5 3^{58} p	5 7^{58} p	5 11^{58} p
2½	N 59 W 44	S 39 E 27	0	N 34 W 40	S 30 E 34	S 32 W 27	N 63 W 23	N 44 W 71	N 31 W 51	N 03 W 40	N 35 W 76	N 36 W 53
5	N 63 W 47	S 45 E 33	S 83 W 16	N 38 W 39	S 25 E 31	S 23 W 23	N 67 W 32	N 55 W 75	N 29 W 44	N 38 W 57	N 46 W 75	N 55 W 58
10	N 56 W 47	S 44 E 30	S 79 W 19	N 42 W 38	S 29 E 31	S 10 W 17	N 68 W 25	N 55 W 78	N 20 W 45	N 25 W 56	N 36 W 78	N 68 W 43
15	N 70 W 46	S 45 E 34	S 35 W 18	N 47 W 44	S 41 E 37	S 44 E 29	S 28 W 32	N 53 W 70	N 20 W 39	N 42 W 44	N 39 W 71	N 65 W 49
20	N 65 W 45	S 45 E 34	N 51 W 14	N 58 W 36	S 25 E 31	S 44 E 31	S 33 W 25	N 56 W 62	N 20 W 45	N 53 W 43	N 52 W 76	N 50 W 25
25	N 57 W 46	S 39 E 31	N 27 W 14	N 48 W 30	S 10 E 31	S 70 E 24	S 31 E 42	N 72 W 46	N 24 W 39	N 30 W 45	N 58 W 73	N 37 W 15
27½	N 49 W 37	S 28 E 25	N 16 W 14	N 46 W 25	S 09 E 29	S 60 E 21	S 58 E 34	N 55 W 57	N 38 W 31	N 26 W 46	N 36 W 72	S 58 E 17
30	N 45 W 30	S 24 E 25	N 23 W 12	N 45 W 19	S 10 E 30	S 71 E 20	S 65 E 32	N 54 W 44	N 62 W 22	N 10 W 44	N 56 W 61	S 58 E 17
	28 3^{48} a	28 7^{49} a	28 11^{49} a	28 3^{52} p	28 7^{49} p	28 11^{44} p	6 3^{58} a	6 7^{59} a	6 11^{58} a	6 3^{58} p	6 8^{00} p	6 11^{58} p
2½	N 75 W 48	N 80 E 30	N 61 W 13	N 13 W 70	N 49 E 46	S 68 E 25	N 33 W 20	N 51 W 57	N 42 W 31	S 19 E 21	N 87 W 70	N 48 W 80
5	N 60 W 48	S 87 E 34	0	N 28 W 69	N 44 E 48	N 03 E 21	N 59 W 13	N 48 W 56	N 64 W 25	S 09 E 24	N 72 W 69	N 43 W 68
10	N 57 W 47	N 89 E 33	N 50 W 19	N 43 W 67	N 40 E 51	S 23 W 26	S 19 W 11	N 68 W 47	S 16 W 16	S 04 E 25	N 70 W 56	N 36 W 37
15	N 69 W 28	S 74 E 38	S 43 E 23	N 55 W 65	N 02 W 34	N 57 E 29	S 14 W 11	N 70 W 39	S 06 W 11	S 23	N 70 W 55	N 07 W 23
20	N 74 W 18	S 50 E 42	S 44 E 21	N 60 W 63	N 36 W 45	N 28 E 24	S 07 E 16	N 66 W 26	S 22 E 14	S 20 E 25	N 54 W 39	N 17
25	N 62 W 18	S 44 E 36	N 66 E 13	N 64 W 72	N 64 W 25	N 10 W 24	S 27 E 19	N 69 W 18	S 29 E 14	S 34 E 33	N 40 W 34	N 20 E 18
27½	N 35 W 9	S 36 E 33	N 75 E 8	N 64 W 70	N 34 W 28	N 15 W 32	S 44 E 26	N 75 W 11	S 38 E 16	S 44 E 35	N 54 W 21	N 18 W 15
30	N 40 W 9	S 33 E 32	N 64 W 2	N 50 W 63	N 20 W 21	N 07 W 36	S 34 E 28	S 86 W 5	S 29 E 21	S 55 E 25	N 56 W 27	N 06 W 16
	29 3^{50} a	29 7^{48} a	29 11^{48} a	29 4^{00} p	29 7^{42} p	29 11^{44} p	7 3^{58} a	7 7^{58} a	7 11^{58} a	7 4^{00} p	7 7^{58} p	7 11^{58} p
2½	N 24 W 70	N 54 E 40	N 32 E 48	N 14 W 23	N 03 W 49	N 52 E 32	S 51 E 34	N 43 W 36	N 59 W 81	N 13 W 29	N 32 W 42	N 45 W 43
5	N 38 W 63	N 40 E 39	N 43 E 36	N 29 W 32	N 15 W 49	N 50 E 36	S 37 E 34	N 40 W 38	N 63 W 79	N 05 E 37	N 26 W 49	N 52 W 45
10	N 54 W 47	N 30 E 52	N 40 E 35	N 44 W 36	N 20 W 50	N 47 E 35	S 53 E 30	N 40 W 25	N 54 W 56	N 29	N 23 W 52	N 59 W 52
15	N 47 W 67	S 54 E 14	N 70 E 21	N 57 W 27	N 17 W 49	N 64 E 33	S 48 E 26	N 40 W 38	N 37 W 46	S 86 E 20	N 36 W 49	N 65 W 29
20	N 41 W 52	S 18 W 21	S 44 W 7	N 44 W 35	N 20 W 47	N 26 E 36	S 42 E 26	N 40 W 37	N 29 W 39	S 10 W 7	N 45 W 45	N 43 W 28
25	N 67 W 26	S 04 E 19	N 24 E 34	N 36 W 42	N 56 W 33	N 28 W 38	N 41 E 21	N 38 W 45	N 40 W 37	S 10 W 7	N 45 W 43	N 46 W 27
27½	N 27 W 25	S 44 W 9	N 10 E 19	N 35 W 43	N 77 W 31	N 55 W 34	N 05 W 22	N 43 W 50	N 55 W 22	S 10 W 7	N 50 W 46	N 70 W 30
30	S 49 W 10	S 36 W 29	N 12 E 19	N 35 W 34	N 83 W 31	N 58 W 31	N 04 E 21	N 31 W 52	S 75 W 6	S 10 W 7	N 58 W 47	N 74 W 26
	30 3^{40} a	30 7^{48} a	30 11^{44} a	30 3^{53} p	30 7^{48} p	30 11^{45} p	8 3^{58} a	8 7^{58} a	8 11^{58} a	8 4^{00} p	8 7^{58} p	8 11^{58} p
2½	N 03 W 36	N 03 W 46	N 18 E 21	N 17 W 70	N 03 E 59	N 64 E 21	S 60 E 21	N 43 W 14	N 40 W 34	S 48 E 27	N 82 E 16	N 22 E 23
5	N 16 W 42	N 16 W 45	N 38 E 25	N 44 W 58	N 30 W 59	N 77 E 31	S 55 E 16	N 40 W 24	N 44 W 31	S 42 E 25	N 23 E 14	N 47 W 59
10	N 21 W 47	N 24 W 44	N 11 E 22	N 54 W 57	N 20 W 57	N 80 E 39	S 48 E 16	N 45 W 29	N 30 W 38	S 25 E 20	N 64 E 24	N 40 W 64
15	N 24 W 46	N 30 W 36	N 16 E 18	N 37 W 51	N 24 W 59	N 89 E 38	S 50 E 25	N 44 W 28	N 44 W 36	S 42 E 20	N 15 E 25	N 33 W 71
20	N 23 W 56	N 18 W 38	N 86 W 17	N 45 W 60	N 33 W 64	S 62 E 42	S 57 E 24	N 44 W 30	N 45 W 33	S 45 E 23	N 46 E 33	N 25 W 51
25	N 61 W 56	N 26 W 37	N 58 W 25	N 73 W 66	N 43 W 40	S 60 E 45	S 53 E 27	N 43 W 28	N 36 W 34	S 43 E 23	N 38 E 32	N 39 W 42
27½	N 34 W 58	N 56 W 34	N 33 W 27	N 79 W 51	N 43 W 39	S 45 E 45	S 53 E 23	N 45 W 25	N 45 W 33	S 36 E 22	N 25 E 31	N 34 W 43
30	N 33 W 64	S 68 W 21	N 52 W 30	N 27 W 46	N 70 W 27	S 45 E 49	S 59 E 22	N 48 W 19	N 65 W 29	S 33 E 24	N 30 E 31	N 60 W 40
	31 3^{46} a	31 7^{40} a	31 11^{48} a	31 3^{52} p	31 7^{48} p	31 11^{48} p	9 3^{59} a	9 7^{58} a	9 11^{58} a	9 4^{00} p	9 7^{58} p	9 11^{58} p
2½	N 58 W 16	N 26 W 36	N 88 E 25	N 05 E 53	N 23 W 36	S 56 E 34	S 29 E 16	N 78 W 11	N 12 E 29	0	N 47 W 16	N 08 W 27
5	N 45 W 21	N 27 W 66	S 75 E 33	N 34 W 39	N 62 W 25	S 56 E 34	S 28 E 20	N 78 W 11	N 28 W 33	0	N 47 E 16	N 15 W 43
10	N 25 W 31	N 29 W 57	S 68 E 22	N 34 W 38	N 64 W 30	S 26 E 43	S 14 E 20	N 63 W 11	N 20 W 42	0	N 70 E 21	N 46 W 46
15	N 23 W 32	N 30 W 32	S 85 E 35	N 36 W 44	N 73 W 36	S 30 E 46	S 18 E 23	N 20 W 19	N 17 W 44	0	N 62 W 19	N 44 W 50
20	N 47 W 31	N 29 W 39	S 51 E 30	N 55 W 43	S 78 W 31	S 30 E 45	S 16 E 22	N 32 W 23	N 46 W 43	0	N 74 E 15	N 50 W 51
25	N 14 W 37	N 30 W 30	S 60 E 29	N 40 W 42	N 62 W 21	S 24 E 44	S 18 E 21	S 81 W 10	N 40 W 49	S 28 E 14	S 65 E 21	N 30 W 40
27½	N 34 W 36	N 15 W 30	S 56 E 29	N 35 W 47	N 71 W 30	S 24 E 43	S 42 W 17	N 25 E 10	N 34 W 50	S 24 E 19	S 54 E 21	N 58 W 26
30	N 24 W 39	S 27 E 16	S 61 E 28	N 54 W 40	S 82 W 20	S 24 E 42	S 16 E 16	N 14 W 14	N 32 W 47	S 12 E 15	S 57 E 19	N 44 W 20
	1 3^{38} a	1 7^{59} a	1 11^{58} a	1 4^{00} p	1 8^{00} p	1 11^{58} p	10 3^{58} a	10 7^{59} a	10 11^{58} a	10 3^{58} p	10 7^{58} p	10 11^{58} p
2½	N 33 W 29	N 30 W 42	N 19 E 36	N 23 W 71	N 06 W 58	N 87 E 29	N 28 W 11	0	N 18 W 33	N 25 W 49	S 12 W 16	N 30 W 20
5	N 30 W 31	N 38 W 48	N 13 E 36	N 13 W 75	N 49 W 67	N 71 E 33	N 68 W 33	S 83 E 11	N 47 W 27	N 45 W 56	S 17 W 25	N 60 W 24
10	N 44 W 36	N 39 W 43	N 20 E 35	N 41 W 73	N 54 W 73	N 36 E 20	N 51 W 43	N 58 W 9	N 48 W 33	N 79 W 44	S 12 W 31	N 65 W 33
15	N 51 W 38	N 35 W 64	N 13 E 35	N 46 W 70	N 40 W 71	N 84 E 11	N 52 W 44	N 85 E 11	N 61 W 46	N 86 W 36	S 05 W 31	N 70 W 35
20	N 60 W 42	N 55 W 48	N 13 E 34	N 40 W 62	N 28 W 74	N 74 E 13	N 66 W 36	S 70 W 19	N 68 W 50	W 28	S 03 W 41	N 76 W 38
25	N 69 W 40	N 63 W 38	N 29 E 38	N 36 W 65	N 63 W 75	N 83 E 13	N 89 W 16	S 50 W 23	N 50 W 28	N 82 W 21	S 02 E 32	N 80 W 35
27½	N 50 W 35	N 87 W 33	N 39 E 18	N 41 W 65	N 54 W 70	N 62 E 19	N 22 W 8	S 52 W 28	N 51 W 27	S 86 W 18	S 12 E 37	N 78 W 22
30	N 53 W 33	S 78 W 22	S 82 E 21	N 33 W 63	N 45 W 73	S 70 E 15	S 59 W 15	S 26 E 30	N 50 W 26	N 87 W 17	S 10 E 30	N 71 W 12
	2 4^{00} a	2 7^{59} a	2 12^{00} m	2 3^{58} p	2 8^{00} p	2 12^{00} p	11 3^{58} a	11 7^{58} a	11 11^{59} p	11 4^{00} p	11 8^{00} p	11 11^{58} p
2½	N 28 W 16	N 45 W 40	S 50 E 32	N 05 E 25	N 21 W 36	S 56 E 30	N 76 W 51	S 09 W 36	N 83 W 25	N 27 E 23	S 18 E 33	S 12 W 19
5	N 22 W 33	N 50 W 39	S 48 E 32	N 06 W 33	N 31 W 43	S 52 E 34	N 76 W 45	S 13 E 30	S 86 W 30	N 03 W 23	S 02 E 30	S 12 W 11
10	N 25 W 45	N 41 W 43	S 47 E 36	N 21 W 32	N 34 W 45	S 53 E 33	N 75 W 37	S 16 E 29	N 12 W 37	N 04 W 48	S 13 E 35	S 05 W 14
15	N 46 W 37	N 70 W 43	S 44 E 37	N 28 W 31	N 46 W 50	S 56 E 32	N 60 W 29	S 15 E 31	N 25 W 31	N 18 W 47	S 04 E 38	S 66 W 8
20	N 13 W 41	N 76 W 36	S 46 E 37	N 40 W 35	N 50 W 51	S 55 E 31	N 59 W 28	S 19 E 33	N 10 W 22	N 05 E 34	S 15 E 48	S 72 W 7
25	N 31 W 39	N 80 W 32	S 54 E 44	N 60 W 34	N 53 W 49	S 57 E 24	N 61 W 28	S 19 E 29	N 04 E 26	N 10 E 33	S 15 E 43	N 21 E 3
27½	N 18 W 38	S 89 W 18	S 60 E 37	N 66 W 24	N 58 W 45	S 62 E 23	N 60 W 24	S 14 E 19	N 20 E 22	N 02 W 33	S 13 E 42	N 60 E 12
30	N 15 W 33	S 30 W 13	S 56 E 32	N 89 W 9	N 63 W 42	S 31 E 26	N 53 W 18	S 14 E 18	N 09 E 15	N 16 W 32	S 24 E 41	N 41 E 19
	3 3^{58} a	3 7^{58} a	3 12^{00} m	3 3^{59} p	3 7^{58} p	3 11^{59} p	12 3^{58} a	12 7^{58} a	12 11^{58} a	12 4^{00} p	12 8^{00} p	12 11^{58} p
2½	N 47 E 16	N 37 E 25	S 48 E 57	N 52 E 46	N 38	S 47 E 11	N 28 W 40	S 23 E 40	S 17 E 40	N 18 W 25	S 23 E 76	S 17 E 53
5	N 57 E 19	N 25 E 24	S 48 E 43	N 50 E 49	N 37 W 45	S 47 E 11	N 27 W 39	S 22 E 45	S 09 W 28	N 03 E 40	S 30 E 78	S 10 E 58
10	N 03 W 11	N 24 W 32	S 43 E 45	N 15 E 47	N 47 W 51	S 43 E 21	N 34 W 42	S 17 E 51	S 05 W 14	N 37 W 36	S 34 E 68	S 08 E 65
15	N 16 W 10	N 21 W 31	S 41 E 34	N 10 W 46	N 52 W 67	S 36 E 21	N 28 W 48	S 08 E 52	S 48 E 22	N 47 W 35	S 26 E 64	S 20 E 55
20	N 27 W 10	N 22 W 38	S 37 E 45	N 04 W 42	N 48 W 69	S 29 E 26	N 04 W 52	S 25 E 48	S 86 E 31	N 24 E 30	S 22 E 57	S 30 E 46
25	N 47 W 19	N 47 W 40	S 30 E 50	N 04 E 25	N 43 W 52	S 36 E 31	N 04 W 43	S 30 E 46	S 83 E 21	N 26 E 27	S 16 E 40	S 48 E 40
27½	N 10 E 17	N 44 W 39	S 26 E 47	N 28 E 15	N 56 W 36	S 36 E 38	N 52 W 21	S 24 E 37	N 75 E 14	N 04 E 29	S 07 E 32	S 39 E 39
30	N 15 E 9	N 40 W 19	S 19 E 47	N 04 E 12	N 56 W 30	S 40 E 39	N 23 E 20	S 34 E 31	N 88 E 13	N 05 E 29	S 12 E 28	S 39 E 29

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec

Meter	**13** 4^{00} a	**13** 7^{58} a	**13** 12^{00} m	**13** 3^{59} p	**13** 7^{58} p	**13** 11^{58} p	**22** 3^{48} a	**22** 7^{48} a	**22** 11^{48} a	**22** 3^{48} p	**22** 7^{48} p	**22** 11^{45} p
2½	N 78 W 19	S 63 E 29	S 31 E 33	N 42 W 33	N 40 E 25	S 50 E 37	N 62 E 29	N 81 W 36	S 77 W 16	S 43 E 33	S 63 E 23	N 26 W 36
5	N 20 E 24	S 75 E 33	S 36 E 43	N 39 W 49	N 56 E 36	S 40 E 28	S 88 E 37	N 77 W 36	N 21 W 37	S 12 E 40	S 61 E 36	N 23 W 48
10	N 29 W 33	S 30 E 39	S 54 E 31	N 31 W 51	N 12 W 24	S 51 E 38	N 43 E 39	N 30 W 36	N 13 W 47	S 21 E 38	S 51 E 41	N 27 W 52
15	N 20 W 37	S 89 E 34	S 34 E 22	N 40 W 52	S 35 W 6	S 33 E 24	S 23 E 40	N 41	N 29 W 43	S 32 E 37	S 50 E 37	N 40 W 57
20	N 22 E 37	S 63 E 11	S 25 E 19	N 50 W 52	S 35 W 6	N 40 E 18	N 14 E 28	N 21 W 34	N 35 W 49	S 41 E 44	S 54 E 34	N 09 E 60
25	N 08 E 37	S 32 E 21	S 26 E 22	N 44 W 48	S 05 E 21	S 04 W 20	N 06 E 35	N 08 E 46	N 34 W 48	S 20 E 28	N 50 W 7	N 17 W 54
27½	N 20 E 34	S 25 E 11	N 26 E 18	N 38 W 45	S 40 W 5	S 25 W 13	S 79 E 21	N 01 W 57	N 19 W 49	S 55 E 19	S 73 E 17	N 14 W 53
30	N 06 E 27	S 07 E 14	N 55 E 19	N 44 W 44	N 65 W 19	S 58 W 16	N 23 E 21	N 09 E 50	N 29 W 46	S 36 E 35	N 85 E 12	N 18 W 57
	14 3^{58} a	**14** 8^{00} a	**14** 11^{58} a	**14** 3^{58} p	**14** 7^{58} p	**14** 11^{58} p	**23** 3^{45} a	**23** 7^{48} a	**23** 11^{41} a	**23** 3^{52} p	**23** 7^{42} p	**23** 11^{48} p
2½	N 28 W 32	N 03 W 25	N 87 E 24	N 38 W 64	N 41 W 48	S 33 E 33	N 22 E 40	N 75 W 43	N 11 W 42	N 88 W 25	S 53 E 46	S 15 E 16
5	N 01 W 36	N 12 E 33	N 72 E 25	N 37 W 67	N 84 W 59	S 33 E 35	N 04 E 44	N 59 E 33	N 23 W 59	S 49 E 25	S 63 E 39	S 03 W 21
10	N 14 W 54	N 08 E 38	S 77 W 4	N 44 W 67	N 46 W 51	S 28 E 42	N 74 W 45	S 04 E 33	N 32 W 57	S 74 W 25	S 71 E 45	N 73 W 25
15	N 49 W 57	N 31 W 31	N 82 E 13	N 35 W 73	N 51 W 45	S 28 E 37	N 05 E 43	N 57 W 29	N 40 W 44	N 14 W 33	S 68 E 49	S 44 E 16
20	N 22 W 77	N 36 W 37	N 05 W 24	N 35 W 72	N 57 W 48	S 45 E 35	N 11 E 36	S 81 W 25	N 04 W 55	N 32 W 39	S 74 E 48	S 20 E 20
25	N 24 W 74	N 13 W 49	N 62 E 21	N 38 W 66	N 74 W 53	S 42 E 31	N 10 W 32	N 16 W 25	N 04 W 53	S 27 E 35	S 44 E 44	S 30 E 21
27½	N 20 W 57	N 36 W 43	S 43 E 18	N 38 W 69	N 55 W 48	S 40 E 34	S 88 W 30	N 09 W 24	N 29 W 40	S 62 W 30	S 40 E 46	S 50 E 26
30	N 30 W 55	N 52 W 28	S 81 E 8	N 31 W 65	N 89 W 17	S 43 E 28	N 36 E 20	N 23 E 32	N 10 W 40	S 16 W 25	S 56 E 45	S 80 E 31
	15 3^{59} a	**15** 8^{00} a	**15** 11^{58} a		**15** 7^{59} p	**15** 11^{59} p	**24** 3^{45} a	**24** 7^{45} a	**24** 11^{48} a	**24** 3^{48} p	**24** 7^{48} p	**24** 11^{48} p
2½	N 17 W 33	N 30 W 48	N 71 E 25		N 41 W 58	S 33 E 19	N 63 W 16	S 43 E 33	N 77 W 20	N 07 E 36	S 33 E 25	N 71 W 25
5	N 44 W 37	N 50 W 59	N 72 E 33		N 32 W 66	S 40 E 24	N 40 W 19	S 46 E 34	N 06 E 21	N 38 W 36	S 84 E 25	N 56 W 25
10	N 51 W 52	N 68 W 46	N 72 E 39		N 30 W 82	S 44 E 23	N 11 W 21	S 49 E 36	N 10 E 29	N 40 W 47	S 81 E 24	N 53 W 24
15	N 54 W 45	N 68 W 52	N 46 E 35		N 39 W 70	S 38 E 26	N 08 W 22	S 39 E 35	N 13 W 32	N 28 W 57	S 64 E 32	N 50 W 20
20	N 55 W 42	N 28 W 55	S 75 E 25		N 40 W 59	S 30 E 30	N 09 W 17	S 29 E 37	N 14 W 31	N 28 W 45	S 32 E 31	N 50 W 20
25	N 44 W 32	N 74 W 43	S 08 W 30		N 30 W 54	S 24 E 32	S 47 E 20	S 31 E 36	N 18 W 30	N 26 W 32	S 26 E 35	N 14 W 23
27½	N 06 W 27	N 61 W 42	S 60 E 25		N 38 W 47	S 27 E 31	S 40 E 26	S 40 E 35	N 23 W 30	N 26 W 31	S 16 E 37	N 02 E 23
30	N 22	W 34	S 17 E 25		N 50 W 40	S 53 E 31	S 37 E 29	S 07 E 40	N 10 W 29	N 27 W 24	S 14 E 33	S 53 E 28
	16 3^{48} a	**16** 7^{50} a	**16** 11^{45} a	**16** 3^{48} p	**16** 7^{39} p	**16** 11^{44} p	**25** 3^{48} a	**25** 7^{44} a	**25** 11^{44} a	**25** 3^{48} p	**25** 7^{38} p	**25** 11^{48} p
2½	N 13 W 25	N 05 W 48	S 64 E 19	N 29 E 23	N 06 W 48	S 68 E 24	N 17 W 42	S 68 E 22	N 18 W 21	N 31 W 46	S 11 E 19	S 84 W 16
5	N 15 W 31	N 33 W 63	S 65 E 24	N 02 W 44	N 40 W 58	S 48 E 24	N 26 W 53	S 83 E 33	N 20 W 22	N 26 W 58	S 10 E 19	S 74 W 19
10	N 26 W 32	N 27 W 66	S 80 E 23	N 11 W 58	N 41 W 65	S 36 E 18	N 34 W 49	S 80 E 35	N 17 W 24	N 26 W 56	S 30 E 20	S 83 W 16
15	N 29 W 31	N 25 W 59	S 80 E 28	N 14 W 66	N 46 W 69	S 45 E 28	N 40 W 45	S 58 E 35	N 04 W 26	N 26 W 53	S 53 E 18	N 85 W 13
20	N 26 W 22	N 38 W 53	S 58 E 33	N 12 W 65	N 25 W 61	S 65 E 25	N 35 W 33	S 55 E 35	N 08 W 25	N 28 W 51	S 33 E 31	S 50 W 13
25	N 22 W 19	N 44 W 47	S 50 E 30	N 12 W 56	N 37 W 63	S 68 E 27	N 26 W 21	S 47 E 36	N 21	N 30 W 49	S 20 E 33	S 26 W 14
27½	N 02 W 11	N 50 W 39	S 50 E 28	N 09 W 46	N 39 W 62	S 88 E 26	N 33 W 19	S 43 E 36	N 08 E 24	N 16 W 46	S 28 E 33	S 16 W 9
30	N 20 E 11	N 70 W 26	S 69 E 30	N 09 W 37	N 40 W 58	S 56 E 20	N 03 W 10	S 40 E 35	N 06 W 30	N 16 W 34	S 26 E 34	S 75 E 14
	17 3^{45} a	**17** 7^{48} a	**17** 11^{50} a	**17** 3^{50} p	**17** 7^{50} p	**17** 11^{50} p	**26** 3^{48} a	**26** 7^{48} a	**26** 11^{50} a	**26** 3^{48} p		**26** 11^{48} p
2½	N 56 W 25	N 02 W 44	E 22	N 07 E 20	N 23 W 74	N 06 W 11	N 48 W 33	S 02 W 18	0	N 75 W 50		N 83 W 40
5	N 77 W 25	N 49 W 59	N 84 E 24	N 27 W 36	N 20 W 75	0	N 49 W 32	S 60 E 29	0	N 55 W 42		N 71 W 39
10	S 44 W 20	N 41 W 72	S 83 E 36	N 40 W 39	N 30 W 76	N 40 E 24	N 58 W 31	S 60 E 32	0	N 67 W 37		S 75 W 36
15	S 40 W 19	N 30 W 65	S 78 E 37	N 34 W 37	N 36 W 74	N 33 E 21	N 57 W 30	S 49 E 31	S 07 W 11	N 54 W 37		S 60 W 42
20	S 32 W 15	N 39 W 47	S 50 E 33	N 34 W 37	N 35 W 67	S 75 E 30	N 46 W 30	S 46 E 30	S 10 W 11	N 49 W 36		S 52 W 44
25	N 71 E 4	N 50 W 32	S 49 E 37	N 11 W 33	N 31 W 59	S 80 E 31	N 50 W 27	S 35 E 43	S 11	N 32 W 32		S 38 W 36
27½	S 34 E 14	N 40 W 31	S 50 E 35	N 10 W 32	N 27 W 57	S 84 E 21	N 46 W 17	S 36 E 47	S 20 E 10	N 19 W 26		S 37
30	N 51 E 15	N 23 W 22	S 45 E 31	N 01 E 40	N 27 W 48	S 36 E 16	N 47 W 9	S 29 E 50	N 2	N 24 E 21		S 05 W 33
	18 3^{45} a	**18** 7^{35} a	**18** 11^{48} a	**18** 3^{49} p	**18** 7^{48} p	**18** 11^{49} p	**27** 3^{47} a	**27** 7^{48} a	**27** 11^{48} a	**27** 3^{52} p	**27** 7^{42} p	**27** 11^{53} p
2½	S 27 E 25	N 41 W 33	N 26 E 33	S 88 E 16	N 02 W 59	N 27 E 24	N 06 W 76	N 18 W 44	N 88 W 36	N 33 W 85	N 65 W 48	S 17 W 25
5	S 35 E 30	N 55 W 48	N 26 E 24	S 54 E 21	N 08 W 58	N 14 W 27	N 13 W 75	N 14 E 48	N 68 W 51	N 38 W 83	N 58 W 52	S 27 W 25
10	S 40 E 30	N 55 W 55	N 53 E 20	S 57 E 21	N 16 W 68	N 17 W 28	N 21 W 76	N 06 E 46	N 50 W 45	N 32 W 80	N 41 W 50	N 81 W 29
15	S 35 E 33	N 53 W 55	S 48 E 21	S 53 E 22	N 26 W 65	N 16 E 21	N 23 W 81	N 04 W 45	N 49 W 46	N 30 W 77	N 30 W 54	S 24 W 32
20	S 44 E 35	N 47 W 49	S 55 E 25	S 20 E 24	N 14 W 73	N 30 E 19	N 48 W 71	N 20 W 48	N 34 W 47	N 33 W 71	N 35 W 55	S 20 E 24
25	S 36 E 37	N 31 W 45	S 04 W 26	N 55 E 15	N 25 W 59	N 10 W 20	N 47 W 69	N 36 W 55	N 03 W 50	N 34 W 63	N 35 W 46	S 29 E 14
27½	S 50 E 30	N 17 W 45	S 55 E 23	N 61 E 09	N 29 W 55	N 07 W 16	N 36 W 44	N 37 W 49	N 30 E 47	N 30 W 62	N 17 W 33	S 88 E 17
30	S 75 E 20	N 10 W 38	S 26 E 24	N 35 E 20	N 27 W 58	S 89 E 15	N 08 W 67	N 44 W 54	N 09 E 44	N 28 W 51	N 20 E 32	S 79 E 20
	19 3^{45} a	**19** 7^{44} a	**19** 11^{50} a	**19** 3^{44} p	**19** 7^{48} p	**19** 11^{48} p	**28** 3^{45} a	**28** 7^{48} a	**28** 11^{45} a	**28** 3^{48} p	**28** 7^{42} p	**28** 11^{49} p
2½	S 78 E 16	N 10 W 37	N 06 W 34	S 58 E 30	N 04 E 46	0	N 57 W 66	N 48 W 29	S 29 E 34	N 34 W 44	N 38 W 36	S 28 E 68
5	S 43 E 16	N 16 W 44	N 30 W 34	S 56 E 30	N 13 W 45	N 23 W 33	N 52 W 71	S 82 W 36	S 12 E 37	N 44 W 48	N 33 W 36	S 26 E 58
10	S 68 E 23	N 14 W 44	N 16 E 28	S 60 E 33	N 34 W 47	N 31 W 32	N 50 W 69	N 14 W 25	S 16 E 38	N 53 W 56	N 30 W 41	S 16 E 56
15	S 76 E 17	N 30 W 46	N 36 E 16	S 43 E 36	N 43 W 49	N 01 W 31	N 40 W 71	N 10 E 40	S 16 E 42	N 46 W 51	N 19 W 35	S 17 E 59
20	S 20 E 22	N 28 W 48	N 08 W 15	S 46 E 37	N 31 W 50	N 23 W 22	N 09 W 74	N 32 E 39	S 17 E 41	N 09 W 51	N 49 W 34	S 10 E 48
25	S 15 E 17	N 35 W 47	N 10 W 14	S 57 E 41	N 22 W 51	N 55 W 22	N 09 W 49	S 67 E 27	S 33 E 35	N 10 W 45	N 58 W 34	S 16 E 43
27½	S 10 E 14	N 28 W 44	N 83 W 17	S 33 E 35	N 05 W 48	S 55 W 16	N 09 E 35	S 15 E 23	S 37 E 31	N 01 W 43	N 80 W 19	S 16 E 39
30	S 42 E 11	N 30 W 35	N 42 W 15	S 29 E 31	N 05 W 44	S 30 E 8	N 38 E 28	S 03 W 24	S 54 E 31	N 20 E 36	N 66 W 19	S 20 E 31
	20 3^{49} a	**20** 7^{48} a	**20** 11^{48} a	**20** 3^{48} p	**20** 7^{48} p	20 11^{48} p	**29** 3^{45} a	**29** 7^{44} a	**29** 11^{48} a	**29** 3^{42} p	**29** 7^{48} p	**29** 11^{48} p
2½	S 22 E 29	N 06 W 33	N 02 W 33	N 49 E 21	N 14 E 59	N 13 W 48	N 31 W 19	N 45 E 19	S 53 E 42	N 09 E 59	N 33 W 67	N 62 E 25
5	S 29 E 36	N 08 E 43	N 05 W 32	S 89 E 21	N 01 E 69	N 50 W 53	N 74 W 21	N 50 E 19	S 79 E 53	N 10 W 69	N 06 W 66	S 66 E 25
10	S 21 E 38	N 11 E 31	N 21 W 38	S 60 E 19	N 25 W 67	N 27 W 68	N 85 W 33	N 37 E 15	S 52 E 57	N 10 W 67	N 06 W 61	S 69 E 32
15	S 06 E 41	N 10 E 33	N 24 W 42	N 85 E 32	N 34 W 75	N 32 W 70	N 70 W 37	N 45 E 13	S 24 E 67	N 16 W 75	N 28 W 59	S 62 E 31
20	S 06 E 42	N 55 W 38	N 16 W 36	N 66 E 23	N 11 W 61	N 34 W 70	N 50 W 20	S 43 W 4	S 35 E 71	N 12 W 61	N 43 W 56	S 82 E 30
25	S 06 E 39	N 32 W 44	N 11 W 29	N 89 E 28	N 22 W 71	N 33 W 71	N 16 W 21	S 43 W 4	S 14 E 69	N 17 W 59	N 41 W 55	S 49 E 27
27½	S 19 E 34	N 22 W 32	N 49 W 29	N 56 E 19	N 12 W 69	N 33 W 66	N 36 E 21	S 14 W 13	S 30 E 69	N 40 W 71	N 25 W 45	S 60 E 26
30	S 14 E 30	N 15 W 27	N 49 W 28	N 68 E 16	N 25 W 57	N 33 W 62	N 56 E 20	S 09 W 20	S 40 E 59	N 04 W 58	N 24 E 44	S 62 E 28
	21 3^{48} a	**21** 7^{48} a	**21** 11^{44} a	**21** 3^{49} p	**21** 7^{48} p	**21** 11^{45} p	**30** 3^{49} a	**30** 7^{45} a	**30** 11^{48} a	**30** 3^{52} p	**30** 7^{44} p	**30** 11^{48} p
2½	N 52 E 25	N 11 E 46	0	S 73 E 20	N 48 E 36	N 77 E 44	N 34 E 37	N 02 E 33	N 69 E 19	N 15 E 70	N 25 W 59	S 63 E 25
5	N 47 E 25	N 06 W 49	N 04 W 48	N 71 E 16	N 05 W 48	E 50	N 21 W 33	N 39 W 33	N 76 E 34	N 21 W 79	N 27 W 65	S 57 E 40
10	N 36 E 20	N 20 W 50	N 40 W 47	N 89 E 14	N 14 W 69	N 75 E 57	N 27 W 52	N 29 W 45	N 69 E 33	N 84 W 85	N 33 W 63	S 30 E 27
15	S 47 W 4	N 24 W 52	N 30 W 53	N 16 E 24	N 24 W 77	N 69 E 33	N 40 W 49	N 45 W 44	N 35 E 13	N 63 W 74	N 30 W 67	S 25 E 34
20	S 64 E 15	N 29 W 49	N 40 W 52	N 02 E 24	N 05 W 69	N 52 E 32	N 38 W 47	N 46 W 36	S 84 E 15	N 24 W 72	N 46 W 69	S 58 E 44
25	N 49 E 20	N 35 W 45	N 24 W 54	N 39 E 17	N 20 W 60	N 50 E 26	N 33 W 49	N 51 W 35	N 52 E 14	N 16 W 64	N 28 W 67	S 40 E 43
27½	N 53 E 20	N 17 W 43	N 26 W 54	N 65 E 19	N 16 W 59	N 54 E 25	N 19 W 49	N 57 W 21	N 19 E 6	N 21 W 58	N 20 W 55	S 24 E 43
30	N 54 E 12	N 16 W 39	N 34 W 46	N 58 E 17	N 22 W 59	N 30 E 22	N 20 W 50	N 60 W 21	S 81 E 11	N 20 W 57	N 01 E 44	S 26 E 33

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

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Meter	31 3^{48} a	31 7^{48} a	31 11^{48} a	31 3^{44} p	31 7^{50} p	31 11^{45} p	9 3^{48} a	9 7^{42} a	9 11^{48} a	9 3^{49} p	9 7^{50} p	9 11^{48} p
$2^1/_2$	N 67 E 16	N 77 E 16	S 58 E 46	N 56 W 33	N 47 E 32	S 01 W 36	N 29 W 27	S 43 E 46	N 33 W 25	N 63 W 48	S 07 W 25	S 31 E 31
5	N 32 E 16	N 02 E 50	S 40 E 56	N 43 W 34	N 40 W 48	S 02 E 44	N 58 W 29	S 46 E 45	N 08 W 33	N 48 W 58	S 10 W 30	N 14 W 29
10	N 28 E 21	N 19 W 52	S 33 E 50	N 50 W 38	N 28 W 79	S 40 E 49	N 73 W 32	S 37 E 50	N 38 W 32	N 53 W 65	S 49 E 34	N 29 W 27
15	N 09 E 24	N 32 W 50	S 30 E 49	N 43 W 42	N 30 W 76	S 37 E 48	N 60 W 23	S 60 E 45	N 44 W 38	N 35 W 54	S 69 E 36	N 81 W 33
20	N 06 W 32	N 21 W 50	S 20 E 42	N 14 W 44	N 33 W 62	S 40 E 56	N 56 W 32	S 18 E 42	N 14 W 37	N 29 W 46	S 84 E 38	N 65 W 31
25	N 30 W 38	N 18 W 46	S 29 E 40	N 10 W 45	N 60 W 39	S 48 E 68	N 66 W 25	S 29 E 46	N 11 E 44	N 36 W 51	S 66 E 37	N 56 W 22
$27^1/_2$	N 15 W 30	N 22 W 47	S 40 E 40	N 06 E 46	N 48 W 24	S 43 E 68	N 40 W 21	S 31 E 43	N 08 W 49	N 16 W 49	S 75 E 33	N 02 W 29
30	N 23 W 32	N 22 W 49	S 39 E 37	N 10 E 48	N 41 W 24	S 04 E 59	N 73 W 18	S 35 E 38	N 40 W 42	N 45 W 37	S 40 E 33	N 66 W 26
	1 3^{48} a	1 7^{48} a	1 11^{49} a	1 3^{49} p	1 7^{48} p	1 11^{45} p	10 3^{48} a	10 7^{48} a	10 11^{48} a	10 3^{50} p	10 7^{38} p	10 11^{48} p
$2^1/_2$	S 08 E 30	N 26 W 19	S 62 E 70	N 09 E 16	N 05 W 68	N 69 E 46	N 63 W 48	S 05 W 11	N 60 W 11	N 23 W 46	S 33 E 40	S 19
5	S 31	N 35 W 24	S 63 E 62	S 75 W 24	N 13 W 75	S 82 E 32	N 52 W 47	S 58 E 26	0	N 28 W 50	S 18 E 39	S 06 E 21
10	S 10 W 39	N 63 W 29	S 43 E 69	N 74 W 27	N 28 W 77	S 87 E 38	N 43 W 50	S 42 E 34	S 53 E 7	N 20 W 57	S 29 E 38	S 28 E 18
15	S 40 W 32	N 36 W 33	S 41 E 65	N 63 W 22	N 26 W 74	S 70 E 30	N 41 W 49	S 65 E 27	N 52 W 19	N 26 W 62	S 51 E 30	N 74 E 22
20	S 06 E 25	N 34 W 26	S 38 E 62	N 03 E 15	N 23 W 67	S 79 E 30	N 46 W 44	S 48 E 33	N 63 W 20	N 33 W 67	S 44 E 37	N 50 E 25
25	S 40 E 26	N 70 W 20	S 39 E 63	N 24 E 24	N 37 W 43	S 19 E 22	N 58 W 47	S 56 E 31	N 11 W 23	N 17 W 69	S 21 E 36	N 56 E 28
$27^1/_2$	N 85 E 25	S 05 E 20	S 34 E 58	N 31 E 29	N 36 W 43	S 10 E 19	N 54 W 42	S 51 E 31	N 21 W 23	N 17 W 68	S 30 E 35	N 44 E 32
30	S 87 E 24	S 22	S 35 E 52	N 30 E 34	N 32 W 42	S 47 E 17	N 44 W 41	S 56 E 35	N 12 W 17	N 11 W 58	S 27 E 34	N 38 E 35
	2 3^{50} a	2 7^{48} a	2 11^{48} a	2 3^{58} p	2 7^{48} p	2 11^{49} p	11 3^{47} a	11 7^{48} a	11 11^{42} a	11 3^{42} p	11 7^{48} p	11 11^{48} p
$2^1/_2$	N 10 E 14	N 33 W 80	N 75 E 24	N 38 W 11	N 31 W 53	N 80 E 11	N 38 W 70	N 73 W 40	N 46 W 55	N 33 W 76	N 31 W 32	S 14 W 25
5	N 14 E 19	N 49 W 88	N 78 E 19	N 29 W 25	N 38 W 46	S 63 E 16	N 30 W 79	N 41 W 39	N 53 W 54	N 20 W 84	N 37 W 36	S 13 E 40
10	N 08 E 20	N 36 W 75	N 75 E 18	N 47 W 35	N 14 W 44	S 63 E 15	N 34 W 80	N 36 W 38	N 46 W 57	N 16 W 72	N 34 W 36	S 18 E 45
15	N 20 W 21	N 24 W 64	N 64 E 22	N 51 W 36	N 22 W 45	S 74 E 15	N 27 W 79	N 32 W 44	N 40 W 61	N 09 W 69	N 38 W 36	S 46 E 37
20	N 35 W 24	N 22 W 48	N 51 E 22	N 45 W 36	N 35 W 43	S 78 E 20	N 25 W 76	N 46 W 43	N 31 W 67	N 16 W 71	N 29 W 29	S 40 E 49
25	N 50 W 25	N 24 W 43	N 56 E 21	N 35 W 36	N 39 W 33	S 80 E 20	N 15 W 71	N 31 W 44	N 16 W 69	N 10 W 64	N 23 W 26	S 43 E 43
$27^1/_2$	N 35 W 27	N 17 W 34	N 48 E 20	N 19 W 36	N 28 W 24	S 80 E 20	N 26 W 66	N 40 E 38	N 12 W 64	N 18 W 55	N 20	S 34 E 41
30	N 39 W 26	N 13 W 32	N 55 E 19	N 18 W 36	N 15 W 24	S 79 E 20	N 18 W 60	N 09 E 35	N 02 E 51	N 18 W 54	N 23 E 15	S 40 E 43
	3 3^{47} a	3 7^{42} a	3 11^{48} a	3 3^{52} p	3 7^{48} p	3 11^{45} p	12 3^{45} a	12 7^{48} a	12 11^{42} a	12 3^{48} p	12 7^{48} p	12 11^{48} p
$2^1/_2$	S 01 E 11	N 35 W 21	N 9	N 72 E 11	N 18 W 33	N 37 E 30	N 43 W 25	S 65 E 16	S 38 E 33	N 23 W 50	N 08 W 25	S 28 E 33
5	S 09 E 11	N 33 W 30	N 05 W 11	N 77 E 16	N 56 W 56	N 05 E 37	N 47 W 31	N 31 E 19	S 38 E 32	N 26 W 52	N 14 W 40	S 29 E 33
10	S 08 E 11	N 40 W 33	N 18 W 14	N 46 E 16	N 53 W 57	N 16 W 40	N 60 W 39	N 41 E 23	S 32 E 45	N 30 W 53	N 04 W 38	S 26 E 33
15	S 11	N 46 W 36	N 52 E 20	S 47 E 11	N 44 W 55	N 14 W 41	N 56 W 38	S 57 E 20	S 40 E 37	N 30 W 51	N 26 W 33	S 26 E 30
20	S 04 E 16	N 40 W 34	N 81 E 23	N 50 E 15	N 30 W 53	N 20 E 15	N 40 W 42	S 12 E 19	S 44 E 43	N 26 W 46	N 63 W 26	S 21 E 46
25	S 14 E 18	N 33 W 30	S 89 E 22	S 81 E 15	N 30 W 49	S 29 E 20	N 47 W 44	S 08 E 24	S 40 E 30	N 30 W 45	N 70 W 21	S 21 E 44
$27^1/_2$	S 16 E 17	N 26 W 20	S 88 E 22	S 89 E 10	N 43 W 45	S 16 E 24	N 31 W 45	S 10 E 23	S 42 E 30	N 26 W 40	W 12	S 16 E 43
30	S 14 E 17	N 13 W 14	S 70 E 22	S 79 E 15	N 43 W 43	S 54 E 20	N 27 W 50	S 16 E 28	S 39 E 27	N 20 W 37	S 84 W 12	S 15 E 39
	4 3^{48} a	4 7^{48} a	4 11^{48} a	4 3^{49} p	4 7^{44} p	4 11^{48} p	13 3^{39} a	13 7^{49} a	13 11^{48} a	13 3^{50} p	13 7^{48} p	13 11^{48} p
$2^1/_2$	S 62 E 36	N 09 E 48	N 62 E 25	S 88 E 16	N 40 E 25	N 64 E 16	N 63 W 25	N 43 W 25	S 35 E 59	N 38 W 16	N 22 E 25	S 41 E 38
5	S 16 E 46	N 06 W 47	N 24 W 33	S 63 E 33	N 24 E 30	N 62 E 18	N 45 W 29	N 46 W 31	S 23 E 57	N 47 W 33	N 36 W 40	S 26 E 38
10	S 23 E 47	N 24 W 68	N 06 E 32	N 76 E 32	N 20 E 32	N 01 E 25	N 48 W 28	N 60 W 35	S 29 E 55	N 38 W 52	N 54 W 52	S 34 E 65
15	S 37 E 29	N 32 W 59	N 03 W 23	N 63 E 20	N 06 E 36	N 11 W 32	S 60 W 19	S 88 W 38	S 30 E 51	N 38 W 53	N 38 W 57	S 27 E 64
20	S 05 E 34	N 23 W 64	N 03 W 31	N 56 E 23	N 10 E 37	N 20 W 31	N 58 W 20	N 65 W 42	S 26 E 49	N 26 W 48	N 24 W 55	S 21 E 70
25	S 11 E 27	N 29 W 62	N 05 W 30	N 62 E 22	N 17 W 45	N 14 W 31	S 84 W 7	N 50 W 36	S 44 E 46	N 24 W 46	N 37 W 52	S 29 E 58
$27^1/_2$	S 32 E 27	N 17 W 60	N 20 W 21	N 70 E 22	N 27 W 47	N 14 W 44	N 16 W 13	N 74 W 19	S 40 E 45	N 31 W 42	N 47 W 50	S 05 E 58
30	S 69 E 15	N 16 W 49	N 22 W 21	N 30 E 18	N 30 W 49	N 14 W 43	N 26 W 20	S 68 E 12	S 36 E 45	N 33 W 38	N 39 W 49	S 29 E 47
	5 3^{48} a	5 7^{48} a	5 11^{44} a	5 3^{50} p	5 7^{40} p	5 11^{42} p	14 3^{48} a	14 7^{38} a	14 11^{44} a	14 3^{48} p	14 7^{50} p	14 11^{48} p
$2^1/_2$	N 87 E 25	N 14 E 41	N 39 E 25	N 17 E 21	N 03 W 58	N 37 W 50	N 60 W 16	N 13 W 21	S 33 E 59	N 33 W 25	S 87 W 48	S 35 E 55
5	N 62 E 40	N 28 W 48	N 24 W 33	N 20 E 25	N 20 E 64	N 33 W 52	N 53 W 27	N 28 W 33	S 37 E 71	N 34 W 25	S 70 W 55	S 33 E 49
10	N 36 E 31	N 12 W 59	N 14 W 45	N 13 E 33	N 05 W 64	N 24 W 50	N 04 W 24	N 16 W 30	S 30 E 73	N 34 W 35	S 64 W 60	S 33 E 48
15	N 04 W 24	N 14 W 64	N 26 W 50	N 04 W 36	N 32 W 64	N 16 W 46	N 42 W 30	N 42 W 31	S 40 E 61	N 10 W 33	S 82 W 69	S 27 E 45
20	N 24 W 24	N 42 W 54	N 19 W 45	N 20 W 37	N 12 W 57	N 05 W 43	N 76 W 25	N 40 W 30	S 50 E 52	N 09 W 37	N 83 W 73	S 21 E 47
25	N 08 W 20	N 30 W 57	N 10 W 47	N 57 W 29	N 21 W 59	N 09 W 37	N 43 W 19	N 45 W 30	S 30 E 63	N 06 W 43	N 65 W 74	S 12 E 42
$27^1/_2$	N 09 E 30	N 23 W 60	N 36 W 47	N 62 W 29	N 03 E 48	N 20 W 37	N 30 W 19	N 55 W 30	S 29 E 70	N 06 E 43	N 70 W 76	S 15 E 42
30	N 03 E 30	N 20 W 61	N 14 W 49	N 63 W 35	N 30 W 48	N 01 E 43	N 14 W 22	N 43 W 34	S 25 E 69	N 09 E 49	S 87 W 78	S 24 E 50
	6 3^{48} a	6 7^{48} a	6 11^{42} a	6 3^{50} p	6 7^{48} p	6 11^{40} p	15 3^{48} a	15 7^{48} a	15 11^{42} a	15 3^{50} p	15 7^{39} p	15 11^{48} p
$2^1/_2$	S 78 E 33	S 73 E 25	N 30 W 37	S 73 E 40	N 58 W 29	N 13 W 40	S 28 E 40	S 69 W 25	S 38 E 58	S 06 E 37	N 28 W 55	S 13 E 46
5	S 67 E 30	N 69 E 40	N 25 W 39	S 87 E 39	N 08 W 40	N 10 W 46	S 16 E 39	S 72 W 31	S 18 E 58	S 37	N 43 W 48	S 06
10	S 73 E 32	N 19 E 32	N 30 W 43	S 64 E 31	N 34 W 31	N 34 W 47	S 26 E 38	S 89 W 28	S 24 E 65	S 07 E 38	N 38 W 46	S 30 E 7
15	N 80 E 27	N 05 W 32	N 17 W 45	S 48 E 37	N 23 W 36	N 55 W 50	S 23 E 30	N 01 E 20	S 34 E 72	S 02 E 42	N 18 W 45	S 44 E 22
20	N 82 E 30	N 19 W 31	N 30 W 46	S 48 E 37	N 17 W 31	N 39 W 48	S 30 E 29	N 71 W 31	S 36 E 70	S 23 E 33	N 40 W 38	S 43 E 44
25	N 16 E 24	N 14 W 37	N 23 W 47	S 62 E 29	N 12 W 43	N 09 W 49	S 23 E 29	S 70 W 30	S 34 E 71	S 64 E 25	N 35 W 23	S 34 E 48
$27^1/_2$	N 80 E 21	N 04 W 37	N 32 W 48	S 79 E 19	N 18 W 39	N 34 W 45	S 20 E 27	S 75 W 26	S 39 E 58	S 40 E 15	S 62 W 47	S 40 E 37
30	N 76 E 21	N 23 W 44	N 70 W 45	N 88 E 19	N 17 W 33	N 26 W 43	S 12 E 29	N 80 W 25	S 27 E 47	S 33 E 15	S 74 W 45	S 55 E 28
	7 3^{50} a	7 7^{48} a	7 11^{48} a	7 3^{48} p	7 7^{48} p	7 11^{48} p	16 3^{48} a	16 7^{48} a	16 11^{48} a	16 3^{52} p	16 7^{48} p	16 11^{48} p
$2^1/_2$	S 53 E 25	S 33 E 16	N 25 W 36	S 03 E 25	S 18 E 67	S 31 E 46	S 03 E 67	S 37 W 25	S 18 E 67	S 05 E 25	N 33 W 46	S 42 E 38
5	S 49 E 30	N 43 W 33	N 38 W 48	S 03 E 42	S 24 E 66	S 23 E 45	S 08 E 66	S 32 W 33	S 32 E 59	S 13 E 40	N 38 W 32	S 13 E 41
10	S 35 E 39	S 06 W 33	N 46 W 47	S 03 E 45	S 18 E 64	S 05 E 26	S 08 E 64	N 80 W 32	S 24 E 65	S 02 E 31	N 78 W 42	S 32 E 64
15	S 37 E 37	N 60 E 2	N 88 W 51	S 03 W 47	S 36 E 58	S 06 E 30	S 02 E 58	N 70 W 32	S 23 E 53	S 38 W 31	N 26 W 43	S 33 E 59
20	S 32 E 41	S 39 W 32	S 88 W 56	S 05 W 49	S 30 E 51	S 36	S 20 E 61	N 67 W 36	S 23 E 65	S 38 E 30	N 31 W 43	S 33 E 56
25	S 24 E 36	S 20 W 23	N 23 W 45	S 05 W 40	S 44 E 50	S 10 W 29	S 60 E 56	N 59 W 22	S 23 E 59	S 38 E 30	N 25 W 35	S 26 E 50
$27^1/_2$	S 14 E 25	S 26 W 20	N 14 W 32	S 04 E 45	S 65 E 48	N 82 W 30	S 18 E 48	N 15 W 24	S 36 E 58	S 40 E 33	N 04 W 37	S 32 E 44
30	S 05 W 20	N 45 E 6	N 08 W 33	S 16 E 43	S 28 E 44	N 10 W 12	S 08 E 47	N 25 E 26	S 49 E 62	S 48 E 21	N 06 E 29	S 24 E 48
	8 3^{40} a	8 7^{44} a	8 11^{48} a	8 3^{48} p	8 7^{48} p	8 11^{48} p	17 3^{50} a	17 7^{48} a	17 11^{48} a	17 3^{48} p	17 7^{48} p	17 11^{48} p
$2^1/_2$	S 23 E 46	S 03 E 46	S 33 E 16	S 19 E 40	S 23 E 79	S 28 E 34	S 55	N 62 E 33	S 31 E 40	S 33 E 70	S 82 W 36	S 14 E 41
5	S 28 E 52	S 06 E 51	S 09 W 29	S 13 E 46	S 26 E 74	S 48 E 29	S 04 W 58	N 15 E 33	S 23 E 39	S 11 E 60	N 59 W 36	S 19 E 46
10	S 12 E 46	S 09 W 53	S 34 E 15	S 20 E 37	S 28 E 76	S 46 E 29	S 08 W 56	N 81 W 22	S 20 E 52	S 23 E 65	N 20 W 48	S 11 E 44
15	S 03 E 49	S 03 E 56	S 65 E 15	S 14 W 34	S 31 E 78	S 34 E 21	S 09 E 51	S 57 W 26	S 18 E 49	S 21 E 63	N 40 W 46	S 24 E 46
20	S 02 E 37	S 22 E 61	N 47 W 26	S 36	S 59 E 69	S 30 E 15	S 23 E 37	N 44 W 28	S 29 E 52	S 12 E 72	N 26 W 52	S 11 E 39
25	S 13 W 34	S 14 E 63	S 24 W 28	S 08 E 42	S 33 E 64	S 25 E 20	S 27 E 30	N 60 W 32	S 32 E 50	S 15 E 62	N 50 W 44	S 08 W 4
$27^1/_2$	S 16 W 33	S 21 E 69	S 26 W 26	S 13 E 34	S 30 E 54	S 39 E 14	S 40 E 24	N 44 W 23	S 23 E 48	S 48 E 62	N 41 W 31	S 02 E 42
30	S 29	S 14 E 72	S 33 W 16	S 34	S 33 E 53	S 10 E 15	S 59 E 15	N 15 W 27	S 20 E 48	S 38 E 57	N 29 W 31	S 35

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

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Meter	**18** 3^{40} a	**18** 7^{46} a	**18** 11^{48} a	**18** 3^{48} p	**18** 7^{48} p	**18** 11^{49} p	**27** 3^{44} a	**27** 7^{48} a	**27** 11^{46} a	**27** 3^{49} p	**27** 7^{45} p	**27** 11^{39} p
2½	S 20 E 58	N 43 W 25	S 06 E 56	S 18 E 67	S 10 W 46	S 81 W 16	N 70 W 20	N 45 W 9	S 40 E 33	N 65 W 30	N 67 W 25	N 43 E 16
5	S 18 E 66	N 50 W 30	S 19 W 48	S 23 E 63	S 84 W 43	S 79 W 21	N 67 W 21	N 52 W 9	S 49 E 43	N 60 W 33	N 45 W 21	S 33 E 33
10	S 24 E 64	N 64 W 35	S 20 W 57	S 20 E 64	S 48 W 45	S 14 E 25	N 66 W 24	N 26 W 11	S 43 E 44	N 56 W 30	N 31 W 28	S 46 E 49
15	S 24 E 62	N 70 W 38	S 06 W 54	S 10 E 62	S 44 W 30	N 20 E 2	N 56 W 29	S 50 E 12	S 37 E 41	N 56 W 31	N 33 W 27	S 24 E 37
20	S 17 E 57	N 78 W 42	S 13 W 51	S 24 E 60	N 56 E 30	N 52 E 29	N 59 W 32	S 30 E 14	S 10 E 36	N 39 W 30	N 08 W 21	S 19 E 36
25	S 05 E 49	N 44 W 44	S 08 E 42	S 37 E 56	N 45 E 36	S 43 E 37	N 51 W 34	S 20 E 19	S 15 E 32	N 24 W 33	S 64 W 9	S 17 E 29
27½	S 20 E 32	N 25 W 46	S 06 W 37	S 34 E 55	N 66 E 36	S 48 E 45	N 52 W 37	S 20 E 19	S 16 E 28	N 24 W 35	S 59 W 12	S 17 E 28
30	S 17 E 32	N 41 W 50	S 35 E 38	S 24 E 39	N 30 E 43	S 46 E 48	N 48 W 41	S 10 E 18	S 28 E 20	N 12 W 30	S 50 W 12	S 10 E 28
	19 3^{40} a	**19** 7^{42} a	**19** 11^{50} a	**19** 3^{49} p	**19** 7^{45} p	**19** 11^{48} p	**28** 3^{42} a	**28** 7^{49} a	**28** 11^{48} a	**28** 3^{49} p	**28** 7^{48} p	**28** 11^{45} p
2½	S 28 E 59	N 35 W 40	N 13 W 29	S 35 E 33	N 13 W 21	N 78 W 29	N 38 W 33	N 66 W 11	S 27 W 40	N 50 W 40	N 45 W 53	S 22 W 48
5	S 30 E 59	N 44 W 46	N 10 W 31	S 45 E 46	N 10 W 25	N 63 W 29	N 61 W 21	N 62 W 14	S 31 E 46	N 53 W 37	N 72 W 49	S 33 E 58
10	S 38 E 68	N 52 W 26	N 24	S 43 E 32	N 24 W 24	N 61 W 26	N 62 W 24	N 55 W 19	S 41 E 58	N 66 W 38	N 44 W 40	S 35 E 69
15	S 40 E 60	N 34 W 21	N 03 W 23	S 24 E 44	N 18 W 29	N 56 W 27	N 55 W 23	N 30 W 18	S 49 E 56	N 67 W 30	N 36 E 25	S 30 E 81
20	S 40 E 74	N 07 E 22	N 05 E 19	S 20 E 43	N 16 W 29	N 20 E 25	N 45 W 30	N 22 W 20	S 37 E 53	N 20 W 16	N 74 E 35	S 30 E 78
25	S 54 E 60	N 12 E 29	N 08 E 19	S 06 E 29	N 19 W 31	N 14 E 20	N 14 W 23	N 05 W 17	S 38 E 49	N 21 E 20	N 33 E 22	S 34 E 78
27½	S 46 E 58	N 16 E 30	S 06 E 7	S 24 E 29	N 18 W 42	N 12	N 35 E 21	N 11 E 14	S 39 E 49	N 20 E 23	N 67 E 41	S 33 E 72
30	S 47 E 46	N 26 E 30	S 06 E 7	S 23 E 30	N 09 W 43	N 03 W 12	N 05 E 23	N 24 E 11	S 45 E 49	N 52 E 26	N 44 E 45	S 33 E 69
	20 3^{49} a	**20** 7^{42} a	**20** 11^{49} a	**20** 3^{48} p	**20** 7^{39} p	**20** 11^{46} p	**29** 3^{40} a	**29** 7^{42} a	**29** 11^{42} a	**29** 3^{48} p	**29** 7^{44} p	**29** 11^{48} p
2½	S 23 E 20	N 65 E 7	N 68 W 30	S 48 E 25	S 40 E 33	N 43 W 21	N 52 W 19	N 68 W 33	S 35 E 41	N 59 W 59	N 44 W 25	S 43 E 36
5	S 55 E 32	N 47 E 14	N 68 W 27	S 43 E 33	S 30 E 33	N 36 W 25	N 81 W 19	S 76 W 25	S 32 E 43	N 56 W 58	N 48 W 30	S 27 E 50
10	S 45 E 53	N 26 E 19	N 59 W 28	S 38 E 36	S 12 E 32	N 38 W 30	S 04 E 24	S 06 E 25	S 40 E 47	N 60 W 42	N 61 W 33	S 11 E 55
15	S 29 E 55	N 15 W 14	N 37 W 24	S 34 E 48	S 23	N 53 W 34	S 32	N 85 E 17	S 57 E 58	N 56 W 40	N 58 W 36	S 16 E 56
20	S 21 E 56	N 69 W 16	N 24 W 27	S 34 E 49	S 22	N 54 W 37	S 10 E 33	S 05 E 25	S 60 E 64	N 52 W 39	N 60 W 37	S 31 E 53
25	S 24 E 60	N 70 W 23	N 08 W 21	S 26 E 55	S 09 E 19	N 50 W 21	S 19 E 37	N 24 E 4	S 54 E 69	N 58 W 31	N 64 W 30	S 17 E 49
27½	S 23 E 45	N 52 W 25	N 01 E 22	S 26 E 53	S 29 E 18	N 36 W 7	S 79 E 33	S 15 E 12	S 54 E 73	N 20 E 34	N 46 W 30	S 26 E 50
30	S 36 E 37	N 56 W 28	N 01 E 21	S 14 E 46	S 58 E 12	S 48 E 9	S 45 E 32	S 14 E 20	S 52 E 70	N 74 E 40	N 39 W 27	S 14 E 49
	21 3^{48} a	**21** 7^{45} a	**21** 11^{50} a	**21** 3^{49} p	**21** 7^{39} p	**21** 11^{38} p	**30** 3^{45} a	**30** 7^{42} a	**30** 11^{42} a	**30** 3^{50} p	**30** 7^{40} p	**30** 11^{44} p
2½	S 37 E 19	S 21 E 16	N 83 W 29	S 68 E 24	S 26 E 53	S 87 W 25	N 25 W 59	N 31 W 53	S 48 E 33	N 11 W 48	N 23 W 46	S 31 E 31
5	S 33 E 30	S 20 E 31	N 59 W 33	N 75 E 22	S 35 E 52	S 85 W 29	N 38 W 54	N 18 W 53	S 02 E 46	N 33 W 48	N 24 W 48	S 26 E 40
10	S 56 E 28	S 33 E 24	N 58 W 32	S 17 E 19	S 38 E 50	N 88 W 32	N 39 W 53	N 25 W 57	S 14 W 52	N 10 W 68	N 11 W 51	S 01 E 44
15	S 62 E 33	S 45 E 20	N 39 W 23	S 18 E 19	S 39 E 52	N 04 E 21	N 16 W 43	N 20 W 67	S 30 E 37	N 12 W 66	N 11 W 49	S 12 E 46
20	S 50 E 41	S 46 E 18	N 16 W 25	S 58 E 33	S 26 E 46	N 68 E 27	N 16 W 36	N 34 W 64	S 47 E 37	N 01 E 64	N 17 W 49	S 42 E 49
25	S 61 E 40	S 53 E 23	N 04 W 31	S 26 E 33	S 34 E 43	N 80 E 23	N 33 W 43	N 12 W 67	S 54 E 39	N 26 W 69	N 20 W 45	S 61 E 45
27½	S 60 E 39	S 88 E 23	N 04 W 30	S 10 E 33	S 38 E 44	N 80 E 22	N 20 W 45	N 32 W 66	S 76 E 29	N 44 W 61	N 15 W 41	S 64 E 43
30	S 59 E 38	N 89 E 20	N 09 E 26	S 08 E 33	S 39 E 37	N 84 E 17	N 34 W 42	N 37 W 60	S 48 E 30	N 19 W 59	N 40 W 37	S 42 E 39
	22 3^{46} a	**22** 7^{47} a	**22** 11^{49} a	**22** 3^{47} p	**22** 7^{45} p	**22** 11^{38} p	**1** 3^{47} a	**1** 7^{45} a	**1** 11^{49} a	**1** 3^{48} p	**1** 7^{38} p	**1** 11^{40} p
2½	S 43 E 20	S 35 E 53	S 83 W 21	N 45 W 46	S 19 E 46	S 16 W 16	N 01 W 33	N 17 W 79	N 57 E 25	N 11 E 40	N 53 W 84	N 23 W 48
5	S 46 E 25	S 37 E 45	N 64 W 25	N 38 W 52	S 26 E 52	S 27 W 19	N 15 W 37	N 24 W 74	N 55 E 29	N 18 E 48	N 49 W 76	N 15 W 58
10	S 55 E 24	S 32 E 40	N 30 W 24	N 30 W 50	S 27 E 48	S 55 W 20	N 04 E 38	N 23 W 65	N 70 E 30	N 11 E 50	N 39 W108	N 07 W 57
15	S 50 E 29	S 34 E 38	N 41 W 23	N 30 W 31	S 30 E 52	S 50 W 20	N 08 W 40	N 18 W 61	S 84 E 33	N 06 E 48	N 20 W 87	N 12 W 64
20	S 60 E 34	S 20 E 39	N 29 W 23	N 05 W 19	S 14 E 51	S 34 W 20	N 39	N 31 W 61	S 64 E 35	N 10 E 50	N 24 W 67	N 06 E 50
25	S 30 E 37	S 26 E 45	N 18 W 27	N 84 W 12	S 12 E 49	N 38 E 5	N 10 W 41	N 37 W 58	S 55 E 29	N 06 W 49	N 33 W 72	N 20 E 45
27½	S 26 E 42	S 30 E 43	N 05 E 30	N 72 W 19	S 15 E 47	N 68 E 13	N 32 W 41	N 50 W 49	S 36 E 29	N 47	N 08 W 47	N 09 W 37
30	S 30 E 43	S 45 E 43	N 13 E 27	N 72 W 19	S 16 E 44	S 83 E 15	N 04 W 42	N 36 W 46	S 26 E 22	N 08 W 44	N 20 W 45	N 16 E 48
	23 3^{38} a	**23** 7^{46} a	**23** 11^{48} a	**23** 3^{49} p	**23** 7^{48} p	**23** 11^{45} p	**2** 3^{49} a	**2** 7^{47} a	**2** 11^{38} a	**2** 3^{49} p	**2** 7^{45} p	**2** 11^{40} p
2½	N 38 W 24	S 50 E 36	S 29 W 16	N 43 W 42	S 24 W 25	S 52 W 21	N 36 W 32	N 46 W 71	N 13 W 25	N 14 E 48	N 28 E 32	S 03 E 25
5	N 59 W 23	S 52 E 44	S 54 W 29	N 34 W 59	S 30 E 40	S 23 E 22	N 40 W 36	N 72 W 75	N 29 W 28	N 20 W 48	N 37 W 55	S 37 E 25
10	N 72 W 21	S 59 E 47	N 39 E 26	N 38 W 57	S 60 E 36	S 11 E 29	N 22 W 47	N 26 W 59	N 30 E 24	N 11 W 50	N 29 W 66	S 79 E 32
15	N 64 W 22	S 56 E 53	N 44 E 29	N 20 W 33	S 37 E 41	S 02 E 38	N 27 W 53	N 37 W 57	S 44 W 17	N 40 W 56	N 34 W 66	S 28 E 23
20	N 84 W 20	S 41 E 56	N 35 E 24	N 24 W 32	S 27 E 44	S 11 E 33	N 28 W 56	N 29 W 56	S 79 E 22	N 55	N 30 W 51	S 64 E 27
25	S 77 W 16	S 35 E 62	N 54 W 21	W 18	S 05 E 43	S 09 E 31	N 37 W 68	N 30 W 54	S 54 W 26	N 06 E 58	N 34 W 52	S 52 E 22
27½	S 07 W 11	S 26 E 67	N 19 E 20	N 78 W 17	S 03 E 37	S 07 E 21	N 37 W 70	N 26 W 51	S 60 E 28	N 04 W 57	N 24 W 39	S 27 E 12
30	S 32 E 10	S 22 E 58	N 14 E 27	N 74 W 17	S 01 E 31	S 12	N 23 W 77	N 28 W 48	S 72 E 21	N 07 E 50	N 27 W 36	S 56 E 19
	24 3^{40} a	**24** 7^{38} a	**24** 11^{49} a	**24** 3^{48} p	**24** 7^{44} p	**24** 11^{48} p	**3** 3^{38} a	**3** 7^{48} a	**3** 11^{45} a	**3** 3^{48} p	**3** 7^{48} p	**3** 11^{46} p
2½	N 78 W 34	S 07 W 25	S 43 E 19	N 48 W 37	S 30 E 21	S 17 W 25	S 67 W 34	N 26 W 36	0	0	N 43 W 48	S 03 E 11
5	N 57 W 33	S 67 E 25	S 30 E 21	N 47 W 39	S 33 E 25	S 32 E 33	S 65 W 33	N 20 W 46	S 49 W 13	S 06 E 11	N 50 W 54	S 39 W 24
10	N 45 W 30	S 47 E 39	S 17 E 23	N 37 W 43	S 32 E 31	S 30 E 35	S 89 W 33	N 21 W 43	N 54 W 19	0	N 36 W 53	S 42 W 21
15	N 41 W 18	S 46 E 52	S 10 E 17	N 36 W 44	S 33 E 33	S 22 E 34	N 86 W 20	N 28 W 57	S 86 E 2	S 02 W 11	N 34 W 55	S 21 E 23
20	S 56 E 7	S 49 E 52	S 30 W 20	N 16 W 43	S 14 E 35	S 11 E 31	N 75 E 7	N 28 W 56	S 18 W 11	S 16 E 11	N 24 W 54	S 64 W 14
25	S 56 E 7	S 43 E 50	S 42 W 25	N 14 W 34	S 09 E 37	S 37 E 21	N 75 E 7	N 34 W 43	S 17 W 11	S 52 E 19	N 09 W 53	S 61 E 14
27½	S 56 E 7	S 36 E 46	S 27 W 27	N 11 W 27	S 04 W 37	S 50 E 17	N 02 W 10	N 40 W 35	S 10 W 09	S 39 E 18	N 14 E 41	S 13
30	S 56 E 7	S 30 E 46	S 20 W 31	N 44 W 17	S 06 W 41	N 68 E 19	N 65 E 16	N 38 W 34	S 04 W 11	S 70 E 19	N 18 W 32	S 30 E 20
	25 3^{46} a	**25** 7^{48} a	**25** 11^{48} a	**25** 3^{50} p	**25** 7^{42} p	**25** 11^{44} p	**4** 3^{40} a	**4** 7^{38} a	**4** 11^{48} a	**4** 3^{48} p	**4** 7^{48} p	**4** 11^{48} p
2½	N 63 W 29	S 13 E 14	S 08 E 16	N 46 W 30	N 47 W 9	S 23 E 33	S 38 E 30	N 33 W 25	S 05 E 19	S 23 E 40	N 08 W 25	N 88 W 16
5	N 46 W 33	S 69 E 19	S 56 E 21	N 49 W 31	0	S 20 E 33	S 20 E 34	N 13 W 29	S 33 E 19	S 15 E 46	N 29	0
10	N 54 W 29	S 76 E 27	S 61 E 24	N 40 W 39	S 51 E 11	S 26 E 31	S 34 E 21	N 18 W 32	N 19	S 12 E 47	N 02 E 36	S 61 E 25
15	N 45 W 29	S 61 E 31	S 15 E 20	N 42 W 42	S 31 E 24	S 32 E 26	S 12 E 27	N 36 W 38	S 76 E 10	S 10 E 49	N 13 E 35	S 16 E 24
20	N 43 W 29	S 50 E 37	N 41 W 4	N 30 W 45	S 21 E 23	S 36 E 26	S 14 E 20	N 49 W 37	S 04 E 19	S 21 E 42	N 14 E 37	S 15 W 28
25	N 34 W 18	S 30 E 36	N 41 W 4	N 20 W 46	S 17	S 40 E 22	S 44 E 26	N 26 W 29	S 08 W 23	S 30 E 33	N 07 E 29	S 15 W 24
27½	N 08 E 14	S 26 E 35	N 20 E 17	N 16 W 45	S 17 W 14	S 27 E 20	S 60 E 24	N 44 W 28	S 76 W 19	S 30 E 32	N 07 W 23	S 56 W 15
30	N 44 E 21	S 30 E 24	N 24 E 26	N 19 W 39	S 08 W 17	S 22 E 17	S 74 E 26	N 26 W 29	S 57 W 19	S 16 E 24	N 06 W 17	S 44 W 15
	26 3^{47} a	**26** 7^{46} a	**26** 11^{48} a	**26** 3^{42} p	**26** 7^{38} p	**26** 11^{38} p	**5** 3^{46} a	**5** 7^{40} a	**5** 11^{38} a	**5** 3^{48} p	**5** 7^{42} p	**5** 11^{40} p
2½	N 51 W 25	N 45 E 11	S 50 E 30	N 43 W 34	N 88 W 11	S 18 E 33	S 46 E 59	N 15 E 25	N 18 W 25	S 40 E 33	N 45 W 11	N 07 E 21
5	N 42 W 25	N 62 E 11	S 40 E 34	N 45 W 32	N 70 W 7	S 29 E 32	S 43 E 71	N 26 W 33	N 18 W 33	S 39 E 34	N 09 W 19	N 04 W 25
10	N 52 W 24	N 42 E 13	S 43 E 31	N 37 W 38	N 43 W 16	S 23 E 34	S 45 E 67	N 09 E 36	N 18 W 33	S 21 E 36	N 30 W 14	N 26 W 31
15	N 53 W 25	N 80 E 16	S 20 E 20	N 21 W 33	N 49 W 10	S 10 E 22	S 36 E 44	N 04 W 44	N 32 W 31	S 28 E 44	N 24 W 17	N 27 W 33
20	N 30 W 19	S 68 E 20	S 26 E 14	N 19 W 40	S 59 E 2	S 09 E 18	S 28 E 48	N 12 W 43	N 13 W 29	S 33 E 45	N 26 E 17	N 21 W 30
25	N 14 W 21	S 43 E 21	S 26 E 11	N 08 W 36	S 04 W 7	S 08 E 18	S 34 E 51	N 07 W 42	N 58 W 31	S 30 E 45	S 02 E 5	N 24 W 30
27½	N 01 W 21	S 41 E 24	S 36 E 11	N 10 W 36	S 04 E 10	S 05 E 21	S 34 E 39	N 20 W 34	N 40 W 30	S 18 E 37	N 77 E 10	N 36 W 33
30	N 01 W 20	S 30 E 26	S 59 E 11	N 08 W 38	S 13 W 11	S 21 E 11	S 46 E 38	N 14 W 34	N 43 W 33	S 18 E 33	N 52 E 14	N 30 W 30

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	6 3⁴⁸ a	6 7⁴⁵ a	6 11⁴⁰ a	6 3⁴⁸ p	6 7⁴¹ p	6 11³⁹ p	15 3⁴⁵ a	15 7⁴² a	15 11⁴⁸ a	15 3⁴² p	15 7⁴⁰ p	15 11⁴² p
2½	S 73 E 36	N 08 W 24	N 18 E 33	N 77 E 29	S 83 E 32	N 27 E 33	0	N 30 W 36	S 25 E 46	S 18 E 20	N 15 E 30	S 46 E 50
5	S 67 E 36	N 11 W 27	N 10 W 43	N 83 E 25	S 67 E 36	N 12 E 22	N 47 E 25	N 52 W 42	S 17 E 52	S 54 W 14	N 06 E 34	S 36 E 45
10	S 62 E 47	N 58 E 31	N 14 W 38	S 39 E 32	S 50 E 31	N 08 E 35	N 78 E 30	N 15 W 41	S 20 E 50	S 30 W 20	N 04 W 33	S 32 E 50
15	S 62 E 46	N 64 E 32	N 24 W 50	S 29 E 23	S 30 E 35	N 06 E 32	N 34 E 28	N 16 W 47	S 20 E 49	S 30 W 20	N 04 E 26	S 35 E 47
20	S 33 E 34	N 35 E 21	N 52 W 49	S 16 E 27	S 37 E 34	N 33 W 22	N 12 E 31	N 75 W 51	S 20 E 49	S 21 W 22	N 26 W 28	S 32 E 49
25	S 44 E 33	N 38 E 20	N 43 W 50	S 31	S 40 E 39	N 20 W 34	N 54 W 33	N 35 W 40	S 26 E 45	S 02 E 20	N 26 W 25	S 30 E 46
27½	S 27 E 33	N 58 E 20	N 36 W 46	S 08 E 30	S 38 E 38	N 05 W 36	N 42 W 20	N 83 W 45	S 23 E 44	S 22 E 22	N 15 W 25	S 30 E 44
30	S 46 E 32	N 74 E 26	N 38 W 39	S 31	E 34	N 06 W 49	N 60 W 15	N 38 W 51	S 35 E 44	S 30 E 25	N 22 W 21	S 27 E 43
	7 3⁴⁰ a	7 7⁴⁸ a	7 11⁴⁵ a	7 3⁴⁸ p	7 7⁴⁵ p	7 11³⁸ p	16 3⁴⁸ a	16 7⁴⁶ a	16 11⁴² a	16 3³⁵ p	16 7⁴⁰ p	16 11³⁸ p
2½	N 67 E 20	S 75 E 36	N 42 E 29	N 22 E 11	S 59 E 44	S 73 E 19	S 58 E 34	N 03 W 25	S 80 E 30	N 79 E 25	N 19 E 40	N 37 E 30
5	N 47 E 13	S 59 E 36	N 09 E 46	N 09 E 30	S 43 E 60	N 80 E 16	S 44 E 29	N 25 W 29	S 82 E 45	S 87 E 37	N 30 W 46	N 27 E 23
10	N 32 E 22	S 63 E 38	N 20 W 49	N 14 W 21	S 43 E 65	N 27 E 18	S 42 E 28	N 31 W 32	S 64 E 43	S 50 E 30	N 02 W 52	N 14 E 9
15	N 40 E 20	S 45 E 40	N 20 W 49	N 26 W 20	S 42 E 75	N 02 W 18	S 51 E 27	N 33 W 36	S 50 E 37	S 59 E 31	N 27 W 49	N 46 E 9
20	N 68 E 12	S 59 E 34	N 23 W 43	N 39 W 16	S 31 E 55	S 85 E 15	S 40 E 25	N 33 W 44	S 52 E 36	S 03 W 23	N 21 W 55	S 75 E 18
25	S 12 E 12	S 44 E 37	N 28 W 44	N 49 W 19	S 15 E 49	N 29 W 19	S 32 E 24	N 30 W 41	S 56 E 34	S 05 E 27	N 31 W 58	S 40 W 5
27½	S 15 E 17	S 40 E 35	N 27 W 35	S 83 W 18	S 29 E 48	S 43 W 5	S 30 E 24	N 41 W 36	S 38 E 36	S 05 W 13	N 31 W 53	N 36 E 7
30	S 29 W 16	S 53 E 37	N 40 W 30	S 70 W 20	S 16 E 46	S 43 W 5	S 37 E 24	N 50 W 35	S 11 E 33	N 60 W 8	N 43 W 42	S 40 W 5
	8 3⁴⁴ a	8 7⁴² a	8 11⁴⁸ a	8 3⁴⁵ p	8 7⁴⁸ p	8 11⁴⁶ p	17 3³⁵ a	17 7⁴⁸ a	17 11⁴⁵ a	17 3⁴⁸ p	17 7⁴⁴ p	17 11⁴⁰ p
2½	N 22 E 25	S 46 E 27	N 25 W 25	N 46 W 42	S 33 E 44	S 18 W 27	N 35 E 32	N 17 E 46	N 18 W 16	S 07 W 24	N 60 W 25	N 43 W 25
5	N 07 W 40	S 43 E 33	N 24 W 33	N 35 W 48	S 38 E 59	S 08 W 32	N 34 W 39	N 26 W 46	S 12 W 34	S 23	N 43 W 30	N 61 W 25
10	N 09 W 36	S 37 E 38	N 16 W 31	N 28 W 47	S 30 E 57	S 08 E 36	N 10 W 38	N 34 W 51	S 63 E 40	S 56 W 18	N 47 W 33	N 06 E 37
15	N 20 E 34	S 40 E 35	N 27 W 31	N 31 W 44	S 30 E 55	S 14 E 34	N 13 W 42	N 29 W 53	S 49 E 42	S 54 W 17	N 36 W 38	N 10 W 34
20	N 10 W 24	S 44 E 35	N 40 W 31	N 42 W 37	S 27 E 58	S 20 E 25	N 10 W 37	N 40 W 54	N 11 W 30	N 45 W 19	N 27 W 42	N 56 W 30
25	W 31	S 44 E 33	N 20 W 37	N 51 W 26	S 19 E 52	S 28 E 27	N 01 W 20	N 44 W 52	N 31	N 37 W 19	N 35 W 42	N 53 W 30
27½	N 80 W 23	S 27 E 31	N 16 W 36	N 63 W 20	S 17 E 40	S 34 E 24	N 43 W 33	N 43 W 51	N 05 E 30	N 30 E 20	N 37 W 45	N 50 W 17
30	N 74 W 19	S 24 E 27	N 25 W 29	N 73 W 18	S 14 E 40	S 45 E 21	N 11 W 29	N 30 W 49	N 40 W 8	N 02 E 20	N 52 W 45	N 07 W 20
	9 3⁴⁰ a	9 7³⁹ a	9 11⁴⁸ a	9 3³⁸ p	9 7⁴² p	9 11⁴⁸ p	18 3⁴⁶ a	18 7⁴⁸ a	18 11⁴⁸ a	18 3⁵⁰ p	18 7⁴⁸ p	18 11⁴⁶ p
2½	N 33 W 30	S 68 E 44	N 27 E 13	N 11 W 40	S 39 E 30	S 07 W 25	N 50 W 21	N 31 W 25	N 74 W 30	S 15 E 64	S 28 E 11	N 89 E 21
5	N 34 W 29	S 60 E 49	N 32 E 14	N 12 W 37	S 54 E 33	S 16 E 40	N 64 W 21	N 63 W 40	S 75 W 18	S 16 E 69	S 15 E 16	S 40 E 25
10	N 26 W 20	S 57 E 50	N 35 E 14	N 08 W 31	S 60 E 36	S 07 E 31	N 76 W 25	N 54 W 38	W 20	S 02 E 60	S 27 E 16	S 40 E 24
15	N 26 W 16	S 51 E 49	N 27 W 7	N 13 W 37	S 60 E 36	S 11 E 32	N 70 W 26	N 38 W 51	N 88 W 22	S 01 E 54	S 19 W 18	S 28 E 33
20	N 19 W 16	S 33 E 41	N 36 W 10	N 22 W 39	S 53 E 37	S 04 E 30	N 60 W 31	N 26 W 49	W 21	S 60	S 04 W 20	S 27 E 30
25	N 18 W 13	S 34 E 43	N 28 W 15	N 36 W 36	S 40 E 33	S 20 E 20	N 43 W 26	N 19 W 41	S 51 W 21	S 16 E 46	S 14 E 20	S 14 E 26
27½	N 18 W 7	S 31 E 42	N 30 W 15	N 34 W 35	S 33 E 31	S 25 E 20	N 47 W 22	N 30 W 40	S 10 W 25	S 22 E 41	N 83 E 19	S 16 E 25
30	N 51 W 10	S 30 E 43	N 30 W 15	N 38 W 28	S 26 E 27	S 26 E 9	N 27 W 20	N 36 W 39	S 16 W 27	S 32 E 33	N 81 E 19	S 27 E 29
	10 3⁴⁵ a	10 7³⁸ a	10 11⁴² a	10 3⁵⁰ p	10 7⁴⁴ p	10 11⁴² p	19 3³⁹ a	19 7⁴⁴ a	19 11⁴⁸ a	19 3⁴⁸ p	19 7⁴⁷ p	19 11⁴⁸ p
2½	N 03 W 21	N 84 E 21	N 67 E 11	N 13 W 40	N 87 E 20	S 55 E 29	S 70 E 48	N 33 W 44	N 48 W 42	S 02 E 39	S 87 W 25	N 18 W 36
5	N 23 W 43	N 88 E 29	N 79 E 14	N 21 W 46	S 89 E 19	S 45 E 36	S 20 E 55	N 26 W 48	N 08 E 53	S 18 E 38	S 76 W 21	N 17 W 36
10	N 18 W 23	S 68 E 24	N 78 E 13	N 18 W 48	S 82 E 20	S 33 E 36	S 53 E 68	N 20 W 53	N 24 W 57	S 07 E 33	S 81 W 20	N 31 W 38
15	N 22 W 28	S 68 E 23	S 63 E 16	N 23 W 49	S 82 E 17	S 40 E 37	S 45 E 55	N 11 W 56	N 13 W 49	S 06 E 32	N 04 W 25	N 31 W 34
20	N 23 W 23	S 64 E 30	S 76 E 13	N 30 W 43	S 78 E 10	S 43 E 40	S 63 E 53	N 08 W 60	N 22 W 35	S 05 W 30	N 26 W 32	N 67 W 34
25	N 37 W 21	S 44 E 26	S 81 E 13	N 36 W 40	S 34 E 9	S 54 E 36	S 26 E 47	N 28 W 59	N 85 W 38	S 04 W 31	N 09 W 27	N 50 W 33
27½	N 30 W 13	S 22 E 23	S 33 E 15	N 42 W 36	S 37 E 11	S 54 E 32	S 47 E 46	N 26 W 52	N 80 W 37	S 37 E 33	N 36 E 25	N 39 W 28
30	N 26 W 7	S 26 E 22	S 66 E 11	N 30 W 32	S 12 W 17	S 42 E 30	S 59 E 46	N 10 W 42	N 58 W 35	S 04 E 33	N 26 E 24	N 53 W 18
	11 3⁴⁸ a	11 7⁴⁵ a	11 11⁴⁴ a	11 3⁴⁰ p	11 7³⁹ p	11 11³⁹ p	20 3⁴⁵ a	20 7⁴⁴ a	20 11⁴² a	20 3⁴⁸ p	20 7⁴³ p	20 11⁴⁰ p
2½	N 19 W 30	N 70 E 11	S 65 E 21	N 15 W 59	N 21 E 11	S 43 E 34	S 43 E 21	N 12 E 19	N 01 E 21	S 57 E 14	S 20 W 14	N 22 E 46
5	N 64 W 30	N 77 E 27	S 62 E 33	N 04 W 71	N 16 E 19	S 36 E 38	S 56 E 25	N 49 W 19	N 13 W 21	S 48 E 19	S 23 W 16	N 17 E 45
10	N 19 W 38	N 64 E 24	S 48 E 32	N 15 W 71	N 02 E 20	S 35 E 37	S 38 E 28	S 27 E 2	N 17 W 25	S 49 E 23	S 14 W 20	N 17 W 51
15	N 10 W 27	S 64 E 21	S 47 E 31	N 29 W 69	N 09 W 26	S 24 E 33	S 28 E 38	S 61 E 12	N 24 W 33	S 69 E 28	S 24	N 18 W 46
20	N 36 W 26	S 75 E 20	S 45 E 30	N 24 W 69	N 24 W 22	S 20 E 30	S 24 E 32	S 42 E 19	N 42 W 34	S 36 E 33	S 03 E 25	N 10 W 45
25	N 46 W 25	S 70 E 20	S 47 E 30	N 32 W 59	N 32 W 16	S 38 E 33	S 24 E 27	S 50 E 19	N 45 W 36	S 39 E 32	S 12 E 22	N 11 W 44
27½	N 04 W 22	S 20 E 20	S 40 E 26	N 36 W 56	N 49 W 13	S 35 E 32	S 16 E 30	S 84 E 10	N 50 W 30	S 26 E 25	S 50 E 20	N 09 W 49
30	N 36 W 21	S 15 E 20	S 62 E 14	N 46 W 52	S 78 W 16	S 25 E 27	S 16 E 32	N 66 E 10	N 59 W 29	S 19 E 25	S 64 E 20	N 14 W 48
	12 3³⁸ a	12 7⁴⁸ a	12 11⁴² a	12 3⁵⁰ p	12 7⁴⁶ p	12 11⁴⁰ p	21 3¹⁹ a	21 7⁴⁶ a	21 11⁴⁸ a	21 3⁵⁰ p	21 7⁴⁸ p	21 11⁴⁴ p
2½	N 15 E 27	N 42 E 14	S 51 E 32	N 03 W 21	N 16	S 19 E 46	N 02 E 59	N 03 W 50	N 13 W 85	N 20 W 55	N 35 W 25	N 40 W 36
5	N 13 W 33	N 32 E 16	S 45 E 36	N 30 W 33	N 28 W 32	S 34 E 52	N 12 W 69	N 36 W 39	N 13 W 74	N 17 W 58	N 51 W 25	N 31 W 41
10	N 20 W 35	N 09 W 18	S 44 E 41	N 26 W 39	N 34 W 33	S 24 E 48	N 08 W 67	N 24 W 46	N 32 W 74	N 22 W 61	N 33 W 32	N 22 W 47
15	N 20 W 34	N 25 W 18	S 45 E 40	N 16 W 44	N 38 W 37	S 16 E 44	N 02 W 69	N 16 W 50	N 35 W 69	N 30 W 63	N 37 W 31	N 20 W 70
20	N 21 W 33	N 18 W 17	S 40 E 34	N 23 W 49	N 30 W 33	S 22 E 41	N 02 W 61	N 46	N 47 W 73	N 34 W 66	N 26 W 45	N 22 W 63
25	N 26 W 34	N 15 W 17	S 45 E 27	N 24 W 46	N 50 W 24	S 26 E 32	N 10 W 59	N 14 W 49	N 34 W 70	N 38 W 68	N 01 W 36	N 38 W 68
27½	N 24 W 33	N 38 W 17	S 44 E 24	N 20 W 44	N 43 W 24	S 16 E 28	N 08 W 59	N 24 W 46	N 31 W 73	N 18 W 58	N 02 E 29	N 16 W 57
30	N 21 W 32	N 70 W 16	S 52 E 24	N 39 W 36	N 53 W 21	S 16 E 24	N 18 W 58	N 25 W 43	N 30 W 78	N 10 W 49	N 33 E 18	N 10 W 50
	13 3³⁸ a	13 7⁴² a	13 11⁴⁸ a	13 3⁴⁶ p	13 7⁴⁸ p	13 11⁴⁶ p	22 3¹⁷ a	22 7⁴⁸ a	22 11⁴⁸ a	22 3⁴⁸ p	22 7⁴⁵ p	22 11³⁸ p
2½	N 48 W 11	N 65 W 20	S 47 E 42	N 15 E 24	N 21 W 33	S 51 E 44	N 18 W 81	N 23 W 39	N 03 W 59	N 26 W 59	N 83 W 33	N 73 W 16
5	N 49 W 19	N 64 W 20	S 38 E 48	N 13 E 16	N 21 W 33	S 58 E 57	N 26 W 79	N 17 W 38	N 08 E 79	N 39 W 58	S 27 W 34	N 88 W 25
10	N 45 W 22	N 68 W 21	S 37 E 47	N 05 E 20	N 25 W 45	S 27 E 57	N 26 W 78	N 21 W 37	N 06 E 83	N 20 W 57	N 44 E 4	N 62 W 32
15	N 39 W 22	N 63 W 21	S 36 E 47	N 32 W 23	N 16 W 44	S 54 E 55	N 25 W 68	N 17 W 35	N 18 W 79	N 28 W 53	S 41 W 20	N 76 W 36
20	N 28 W 22	N 60 W 20	S 32 E 49	N 23 W 23	N 40 W 36	S 30 E 57	N 20 W 66	N 17 W 35	N 15 W 76	N 16 W 54	S 56 E 31	N 61 W 37
25	N 29 W 22	N 61 W 14	S 20 E 48	N 37 W 22	N 45 W 35	S 37 E 47	N 14 W 64	N 09 W 35	N 16 W 71	N 29 W 52	S 03 E 29	N 44 W 30
27½	N 31 W 21	N 70 W 13	S 20 E 43	N 29 W 22	N 48 W 30	S 06 E 40	N 27 W 58	N 11 W 33	N 16 W 70	N 32 W 51	S 11 E 20	N 49 E 27
30	N 24 W 19	N 81 W 13	S 24 E 42	N 16 W 30	N 51 W 27	S 03 E 32	N 24 W 53	N 09 W 32	N 15 W 64	N 35 W 51	S 31 E 29	N 51 E 27
	14 3⁴⁰ a	14 7³⁹ a	14 11⁴⁶ a	14 3⁴⁸ p	14 7⁴⁸ p	14 11⁴⁸ p	23 3⁴⁹ a	23 7⁴⁸ a	23 11⁴⁸ a	23 3⁴⁵ p	23 7⁴⁸ p	23 11⁴⁴ p
2½	N 35 E 24	N 15 W 59	S 85 E 32	N 08 W 46	N 09 E 36	S 15 E 40	N 26 W 29	S 58 E 53	N 21 W 53	N 33 W 70	N 35 W 33	N 20 W 49
5	N 25 E 24	N 15 W 69	S 70 E 42	N 05 E 45	N 02 W 48	S 07 E 39	N 20 W 30	S 58 E 45	N 23 W 52	N 36 W 65	N 45 W 32	N 18 W 52
10	N 34 W 33	N 23 W 67	S 48 E 49	N 23 W 37	N 10 W 60	S 26 E 42	N 23 W 34	S 18 E 48	N 23 W 49	N 38 W 77	N 26 W 13	N 18 W 48
15	N 06 W 37	N 30 W 47	S 63 E 46	N 26 W 37	N 24 W 62	S 26 E 44	N 08 W 44	S 51 E 49	N 11 W 48	N 20 W 74	N 64 E 25	N 04 W 46
20	N 08 W 36	N 28 W 53	S 24 E 52	N 24 W 43	N 29 W 65	S 29 E 43	N 10 W 46	S 64 E 48	N 21 W 48	N 20 W 68	N 76 E 25	N 07 W 47
25	N 10 W 34	N 30 W 40	S 50 E 46	N 12 W 42	N 40 W 65	S 47 E 40	N 10 W 51	S 35 E 46	N 07 W 48	N 25 W 69	N 68 E 24	N 10 W 48
27½	N 20 W 36	N 56 W 27	S 49 E 45	N 01 W 37	N 59 W 66	S 29 E 39	N 08 W 44	S 10 E 46	N 08 W 45	N 30 W 64	N 75 E 24	N 05 W 45
30	N 29 W 33	N 56 W 27	S 56 E 40	N 14 W 34	N 70 W 58	S 16 E 40	N 10 W 42	S 16 E 45	N 09 W 44	N 46 W 71	N 75 E 21	N 01 W 44

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	**24** 3^{39} a	**24** 7^{44} a	**24** 11^{46} a	**24** 3^{48} p	**24** 7^{47} p	**24** 11^{48} p	**2** 3^{44} a	**2** 7^{48} a	**2** 11^{48} a	**2** 3^{46} p	**2** 3^{48} p	**2** 11^{45} p
2½	N 16 W 67	N 69 E 25	N 37 W 50	N 38 W 40	E 18	S 58 E 24	S 13 E 34	S 27 W 37	S 03 E 25	S 25 E 80	S 06 W 33	S 08 E 29
5	N 18 W 66	N 71 E 29	N 02 W 39	N 20 W 39	S 45 E 25	S 45 E 23	S 10 E 37	S 25 W 39	S 03 E 25	S 15 E 74	S 15 W 32	S 01 E 33
10	N 36 W 70	N 66 E 33	N 11 W 35	N 16 W 44	S 12 E 32	S 46 E 24	S 11 E 43	S 86 W 38	S 04 W 32	S 20 E 71	S 01 W 33	S 34 W 32
15	N 23 W 74	N 86 E 36	N 02 W 34	N 30 W 50	S 38 E 27	S 79 E 22	S 08 E 46	S 21 W 35	S 04 E 38	S 06 E 73	S 30 W 31	S 44 W 33
20	N 12 W 69	N 78 E 37	N 04 W 43	N 27 W 37	S 16 E 31	S 01 W 28	S 13 E 49	N 47 W 37	S 03 W 37	S 06 E 70	S 18 W 30	S 78 W 29
25	N 30 W 73	N 74 E 36	N 04 W 48	N 16 W 36	S 58 E 25	S 31 E 21	S 24 E 44	N 44 W 32	S 09 W 29	S 06 E 68	S 30	S 70 W 21
27½	N 30 W 60	N 72 E 39	N 09 W 45	N 29 W 37	N 70 E 32	S 80 E 21	S 22 E 38	N 14 W 33	S 32 W 29	S 26 E 67	S 70 W 11	N 72 E 25
30	N 23 W 64	N 69 E 34	N 02 W 43	N 33 W 37	N 53 E 33	S 68 E 20	S 45 E 33	N 35 W 27	S 18 W 29	S 40 E 58	S 36 W 20	N 34 E 8
	25 3^{45} a	**25** 7^{46} a	**25** 11^{48} a	**25** 3^{45} p	**25** 7^{44} p	**25** 11^{47} p	**3** 3^{43} a	**3** 7^{42} a	**3** 11^{48} a	**3** 3^{48} p	**3** 7^{48} p	**3** 11^{48} p
2½	N 21 W 55	N 33 W 20	N 18 W 24	N 08 W 59	N 26 W 25	N 82 E 29	S 13 E 59	N 11 W 20	N 48 W 29	S 16 E 85	S 02 W 40	S 02 W 25
5	N 26 W 58	S 54 E 21	N 18 W 23	N 18 W 79	N 32 W 30	N 82 E 29	S 08 E 63	N 26 W 25	S 36 W 33	S 05 E 83	S 18 W 49	S 05 W 25
10	N 31 W 78	S 54 E 19	N 20 W 20	N 11 W 66	N 13 W 30	N 53 E 24	S 20 E 57	N 01 W 30	S 16 W 39	S 21 E 79	S 18 W 51	S 33 W 32
15	N 24 W 71	S 35 E 24	N 18 W 22	N 04 W 64	N 19 E 23	N 09 W 25	S 15 E 43	N 09 E 30	S 04 W 22	S 16 E 68	S 18 W 53	S 08 W 31
20	N 40 W 59	N 80 E 32	N 05 E 21	N 30 W 66	N 18 E 23	S 30 W 23	S 24 E 49	N 10 W 34	S 16 W 22	S 19 E 65	S 02 W 42	S 22 W 30
25	N 38 W 45	S 60 E 31	N 20 E 21	N 28 W 70	N 60 E 33	N 08 E 20	S 19 E 52	N 06 W 37	S 50 W 21	S 26 E 64	S 22 E 42	S 07 E 31
27½	N 16 W 48	S 62 E 35	N 10 E 23	N 16 W 69	S 84 E 37	S 58 E 24	S 43 E 52	N 34 W 37	S 50 W 34	S 37 E 65	S 36 E 42	S 34 E 22
30	N 34 W 35	S 57 E 34	N 02 W 26	N 17 W 58	S 63 E 37	S 57 E 20	S 50 E 52	N 42 W 34	S 50 W 32	S 37 E 62	S 45 E 41	S 34 E 21
	26 3^{48} a	**26** 7^{44} a	**26** 11^{38} a	**26** 3^{48} p	**26** 7^{40} p	**26** 11^{42} p	**4** 3^{46} a	**4** 7^{45} a	**4** 11^{44} a	**4** 3^{52} p	**4** 7^{44} p	**4** 11^{48} p
2½	N 37 W 53	N 68 W 18	0	N 31 W 44	N 60 W 20	S 31 E 25	S 15 E 50	0	N 60 W 25	S 53 E 53	S 31 E 22	N 23 W 46
5	N 28 W 55	N 27 W 25	N 11 E 19	N 19 W 46	S 54 W 23	S 21 E 29	S 13 E 45	S 53 E 25	N 59 W 30	S 45 E 59	S 23 E 26	N 34 W 51
10	N 29 W 52	N 40 W 31	N 12 E 18	N 18 W 49	N 12 W 18	S 19 E 32	S 08 E 44	S 46 W 25	N 63 W 33	S 43 E 61	S 26 E 28	N 43 W 55
15	N 30 W 52	N 54 W 20	N 59 W 34	N 13 W 63	N 76 W 14	S 24 E 34	S 26 E 49	S 50 W 24	N 52 W 38	S 41 E 59	S 16 E 32	N 57 W 49
20	N 16 W 49	S 73 E 27	N 62 E 24	N 13 W 68	N 58 W 9	S 09 E 37	S 36 E 48	S 19 E 28	N 52 W 43	S 50 E 42	S 19 E 26	N 38 W 40
25	N 19 W 48	S 34 E 4	S 71 E 20	N 17 W 60	N 27 W 9	S 22 E 30	S 38 E 49	S 11 W 31	N 18 W 42	S 41 E 35	S 28 E 22	N 22 W 28
27½	N 19 W 47	S 47 E 30	S 73 E 20	N 24 W 51	N 16 W 13	S 30 E 25	S 36 E 48	N 79 E 38	N 05 W 45	S 27 E 35	S 51 E 18	N 34 W 23
30	N 18 W 44	S 70 E 25	S 72 E 19	N 20 W 36	W 9	S 43 E 20	S 38 E 44	N 76 E 36	N 13 E 41	S 35 E 40	S 78 E 15	N 25 E 17
	27 3^{47} a	**27** 7^{48} a	**27** 11^{48} a	**27** 3^{49} p	**27** 7^{50} p	**27** 11^{38} p	**5** 3^{48} a	**5** 7^{48} a	**5** 11^{46} a	**5** 3^{50} p	**5** 7^{44} p	**5** 11^{40} p
2½	N 54 W 70	N 35 W 24	N 70 W 34	N 33 W 58	N 01 E 72	N 60 E 30	N 15 W 59	N 33 W 20	N 25 W 85	N 51 W 31	S 32 W 16	N 68 W 25
5	N 43 W 58	N 17 W 34	S 44 E 49	N 31 W 66	N 13 W 69	N 43 E 29	N 08 W 47	N 24 W 21	N 21 W 78	N 43 W 36	S 12 W 21	N 66 W 34
10	N 45 W 56	N 22 W 38	S 49 E 45	N 31 W 64	N 14 W 66	N 43 E 26	N 16 E 34	N 13 W 24	N 12 W 75	N 37 W 38	S 02 W 33	N 62 W 38
15	N 43 W 50	N 10 W 32	S 16 E 40	N 21 W 74	N 15 W 70	N 44 E 30	N 16 E 34	N 11 E 28	N 14 W 74	N 52 W 42	S 19 E 38	N 52 W 37
20	N 19 W 47	N 03 E 31	N 63 E 30	N 19 W 68	N 21 W 68	N 44 E 30	N 16 E 18	N 02 E 31	N 10 W 72	N 48 W 34	S 08 E 30	N 39 W 26
25	N 44 W 41	N 50 E 20	S 16 E 29	N 23 W 66	N 24 W 70	N 26 E 33	N 05 E 18	N 19 W 35	N 17 W 69	N 65 W 25	S 15 E 25	N 08 E 17
27½	N 11 W 42	N 27 E 20	S 74 E 30	N 35 W 52	N 20 W 69	N 34 E 30	N 34 W 19	N 26 W 40	N 03 W 63	N 70 W 20	S 18 E 25	S 55 E 11
30	N 18 W 37	S 79 E 20	S 72 E 36	N 50 W 45	N 18 W 45	N 07 E 31	N 50 W 20	N 44 W 38	N 02 W 62	W 20	S 26 E 30	S 55 E 11
	28 3^{50} a	**28** 7^{48} a	**28** 11^{48} a	**28** 3^{48} p	**28** 7^{48} p	**28** 11^{46} p	**6** 3^{48} a	**6** 7^{48} a	**6** 11^{44} a	**6** 3^{48} p	**6** 7^{42} p	**6** 11^{46} p
2½	N 37 W 72	N 09 E 53	N 57 E 30	N 28 W 48	N 12 E 70	S 53 E 16	0	S 10 E 25	N 22 W 31	N 30 W 24	S 53 E 37	N 67 W 11
5	N 33 W 75	N 03 W 55	N 63 E 29	N 18 W 69	N 11 W 79	N 11 E 19	S 87 W 16	S 40 E 33	N 20 W 34	N 25 W 27	S 46 E 46	S 75 W 16
10	N 28 W 76	N 56 W 57	S 82 E 26	N 25 W 77	N 11 W 83	N 35	S 79 W 25	S 51 E 39	N 21 W 36	N 20 W 28	S 40 E 46	N 80 W 10
15	N 36 W 77	N 56 W 54	N 83 E 27	N 42 W 83	N 19 W 78	N 12 W 27	S 80 W 24	S 50 E 38	N 22 W 38	N 22 W 24	S 44 E 47	S 66 W 10
20	N 35 W 61	N 56 W 52	N 87 E 32	N 39 W 82	N 15 W 75	N 18 W 20	N 87 W 23	S 46 E 41	N 20 W 43	N 28 W 22	S 43 E 46	S 78 E 15
25	N 33 W 55	N 28 W 30	N 80 E 31	N 42 W 68	N 20 W 71	N 25 W 18	S 03 W 28	S 46 E 38	N 28 W 33	N 49 W 11	S 40 E 45	N 80 E 13
27½	N 40 W 46	N 05 W 22	S 86 E 31	N 33 W 67	N 14 W 65	N 29 E 21	S 26 E 29	S 37 E 37	N 30 W 22	N 66 W 6	S 44 E 45	N 61 E 7
30	N 31 W 41	N 10 W 11	S 84 E 32	N 34 W 65	N 20 W 59	N 74 E 7	S 20 E 29	S 37 E 34	N 37 W 11	S 75 W 8	S 36 E 43	N 64 E 14
	29 3^{39} a	**29** 7^{44} a	**29** 11^{48} a	**29** 3^{48} p	**29** 7^{48} p	**29** 11^{48} p	**7** 3^{46} a	**7** 7^{48} a	**7** 11^{48} a	**7** 3^{48} p	**7** 7^{48} p	**7** 11^{48} p
2½	N 20 W 70	N 37 W 79	N 62 E 37	N 41 E 58	N 11 W 64	N 52 E 33	N 30	N 85 E 40	N 24 E 59	N 44	N 52 E 24	N 57 E 27
5	N 40 W 79	N 33 W 79	N 49 E 39	N 16 E 66	N 36 W 70	N 66 E 24	N 04 E 34	S 77 E 39	N 14 W 58	N 05 W 44	N 69 E 34	N 07 W 34
10	N 44 W 76	N 36 W 80	N 50 E 31	N 24 W 65	N 28 W 73	S 80 E 32	N 13 W 43	S 83 E 38	N 25 W 61	N 03 W 48	S 85 E 28	N 09 W 36
15	N 37 W 56	N 09 W 81	N 28 W 24	N 13 E 63	N 34 W 61	N 65 E 23	N 18 W 37	S 71 E 44	N 19 W 44	N 17 W 49	E 27	N 14 W 33
25	N 36 W 54	N 13 W 78	N 86 E 30	N 30 W 58	N 27 W 59	S 74 W 6	N 33	S 75 E 46	N 40 W 54	N 22 W 50	N 74 E 26	N 25 W 34
20	N 33 W 47	N 25 W 67	N 30	N 16 W 59	N 34 W 72	S 54 E 13	N 10 E 26	S 77 E 47	N 18 W 52	N 16 W 48	S 82 E 20	N 26 W 34
27½	N 36 W 47	N 18 W 63	N 21 E 30	N 23 W 59	N 32 W 65	N 26 E 23	N 35 E 20	S 84 E 46	N 36 W 52	N 18 W 45	S 07 W 25	N 31 W 35
30	N 47 W 30	N 24 W 50	N 30 E 29	N 31 W 57	N 34 W 64	S 66 W 7	N 42 E 10	S 74 E 45	N 25 W 51	N 20 W 44	S 01 W 24	N 23 W 34
	30 3^{46} a	**30** 7^{49} a	**30** 11^{48} a	**30** 3^{48} p	**30** 7^{46} p	**30** 11^{48} p	**8** 3^{39} a	**8** 7^{49} a	**8** 11^{52} a	**8** 3^{50} p	**8** 7^{48} p	**8** 11^{48} p
2½	N 07 E 25	N 31 W 42	S 45 E 36	N 31 W 32	N 04 E 44	N 21 E 33	N 07 E 46	S 66 E 19	N 32 W 24	N 33 W 68	S 43 E 16	S 52 W 11
5	N 26 W 48	N 43 W 48	S 58 E 48	N 28 W 38	N 48	N 28 E 24	N 15 W 52	S 64 E 21	N 17 W 29	N 30 W 71	N 43 W 1	S 08 E 24
10	N 54 W 49	N 51 W 57	S 47 E 49	N 34 W 33	N 07 W 57	N 51 E 24	N 50 W 54	S 46 E 24	N 19 W 34	N 34 W 72	N 01 W 30	S 37 W 10
15	N 40 W 43	N 65 W 56	S 51 E 45	N 44 W 36	N 04 W 62	S 63 E 25	N 48 W 46	S 29 E 26	N 35 W 32	N 40 W 74	N 60 E 26	S 46 W 15
20	N 26 W 48	N 64 W 58	S 47 E 44	N 38 W 32	N 01 E 62	N 86 E 31	N 47 W 47	S 32 E 27	N 26 W 32	N 44 W 71	S 08 E 21	S 10 W 17
25	N 24 W 46	N 52 W 52	S 48 E 43	N 38 W 31	N 04 E 52	N 47 E 26	N 46 W 45	S 36 E 30	N 20 W 30	N 41 W 54	S 17 E 20	S 10 E 17
27½	N 30 W 48	N 69 W 47	S 51 E 43	N 36 W 28	N 12 W 46	N 45 E 22	N 44 W 38	S 32 E 30	N 19 W 32	N 20 W 46	S 14 E 24	S 42 E 14
30	N 26 W 50	N 46 W 40	S 49 E 44	N 06 E 17	N 09 W 46	S 86 E 21	N 41 W 37	S 32 E 26	N 14 W 30	N 16 W 42	S 30 E 29	S 74 E 18
	31 3^{48} a	**31** 7^{46} a	**31** 11^{48} a	**31** 3^{45} p	**31** 7^{40} p	**31** 11^{40} p	**9** 3^{42} a	**9** 7^{49} a	**9** 11^{48} a	**9** 3^{48} p	**9** 7^{44} p	**9** 11^{49} p
2½	N 17 E 53	N 31 W108	N 27 E 24	N 04 W 23	N 03 W 48	S 23 E 34	S 89 W 29	N 42 E 16	S 65 E 19	N 26 E 53	N 15 E 21	S 63 E 25
5	N 08 W 52	N 34 W108	N 02 W 29	N 38 W 36	N 32 W 58	S 33 E 37	N 81 W 41	N 80 E 19	S 66 E 20	N 28 E 52	N 17 E 23	S 50 E 40
10	N 08 W 55	N 17 W 85	N 38	N 20 W 75	N 43 W 57	S 26 E 43	N 67 W 54	N 53 E 18	S 53 E 23	N 41 E 53	N 19 E 26	S 48 E 42
15	N 14 W 55	N 44 W 47	N 04 W 20	N 04 W 73	N 25 W 64	S 09 E 45	N 58 W 65	N 89 E 28	S 36 E 32	N 42 E 52	N 18 E 31	S 26 E 44
20	N 25 W 53	N 36 W 64	N 16 E 14	N 01 W 70	N 56 W 58	S 10 W 49	N 48 W 45	S 58 E 38	S 37 E 24	N 43 E 51	N 21 E 32	S 24 E 46
25	N 39 W 51	N 35 W 62	N 02 E 20	N 06 E 59	N 07 W 57	S 14 E 47	N 30 W 35	S 47 E 37	S 23 E 20	N 44 E 49	N 02 E 33	S 26 E 45
27½	N 19 W 51	N 52 W 45	S 79 E 24	N 28 E 46	N 15 W 60	S 05 W 49	N 43 W 23	S 36 E 34	S 01 E 18	N 30 E 43	N 06 W 35	S 26 E 45
30	N 13 W 49	N 33 W 61	S 87 E 29	N 30 E 38	N 02 E 49	S 08 W 43	N 04 E 24	S 22 E 32	S 16 E 14	N 17 E 38	N 22 W 37	S 32 E 39
	1 3^{48} a	**1** 7^{48} a	**1** 11^{46} a	**1** 3^{45} p	**1** 7^{46} p	**1** 11^{41} p	**10** 3^{48} a	**10** 7^{38} a	**10** 11^{48} a	**10** 3^{49} p	**10** 7^{38} p	**10** 11^{42} p
2½	S 18 E 58	S 17 W 46	S 13 E 50	S 33 E 76	S 41 E 55	S 02 W 25	N 13 W 46	S 07 W 14	S 43 E 25	N 05 W 34	N 23 W 16	S 21 E 25
5	S 16 E 59	S 40 W 32	S 14 E 45	S 31 E 65	S 08 E 47	S 02 E 25	N 28 W 45	0	N 86 E 25	N 13 W 37	N 08 W 29	S 24 E 30
10	S 18 E 65	S 38 W 31	S 04 W 44	S 22 E 73	S 21 W 40	S 20 W 32	N 54 W 51	N 02 W 19	S 51 E 21	N 18 W 43	N 03 W 39	S 36 E 35
15	S 16 E 72	S 49 W 37	S 14 E 49	S 05 E 70	S 14 W 38	S 02 W 38	N 43 W 53	N 07 E 22	S 41 E 23	N 26 W 45	N 13 W 36	S 29 E 38
20	S 11 W 70	N 60 W 32	S 24 E 45	S 11 E 63	S 47	S 12 E 46	N 42 W 41	N 20 W 29	N 84 E 23	N 23 W 46	N 28 W 37	S 40 E 42
25	S 01 E 67	N 59 W 31	S 15 E 46	S 36 E 57	S 23 E 44	S 26 E 43	N 31 W 39	N 13 W 23	N 56 E 14	N 20 W 47	N 48 W 30	S 36 E 42
27½	S 43 E 58	N 28 W 33	S 14 E 45	S 36 E 57	S 30 E 32	S 26 E 43	N 14 W 46	N 07 W 21	N 56 E 18	N 30 W 49	N 50 W 34	S 28 E 32
30	N 84 E 43	N 30 W 24	S 26 E 47	S 29 E 45	S 61 E 38	S 34 E 48	N 20 W 45	N 19 W 26	N 79 E 27	N 40 W 49	N 40 W 29	S 34 E 25

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	**11** 3^{47} a	**11** 7^{48} a	**11** 11^{42} a	**11** 3^{48} p	**11** 7^{42} p	**11** 11^{38} p	**20** 3^{38} a	**20** 7^{45} a	**20** 11^{44} a	**20** 3^{48} p	**20** 7^{38} p	**20** 11^{44} p
2½	N 13 W 48	N 01 W 59	N 20 E 31	N 08 W 76	N 21 W 68	N 53 W 16	0	S 35 E 13	N 28 W 36	N 56 W 40	S 53 E 33	N 28 W 44
5	N 13 W 58	N 08 W 69	N 15 E 40	N 10 W 83	N 31 W 75	N 58 W 29	N 18 W 11	S 34 E 19	N 01 W 36	N 53 W 44	S 48 E 24	N 36 W 50
10	N 17 W 57	N 18 W 77	N 20 E 52	N 11 W 80	N 22 W 68	N 50 W 32	N 06 W 19	S 53 E 26	N 12 W 58	N 50 W 46	N 84 E 32	N 36 W 53
15	N 24 W 55	N 21 W 64	N 11 E 47	N 23 W 77	N 20 W 70	N 40 W 23	N 15 E 32	N 66 E 24	N 03 W 57	N 45 W 45	N 85 E 27	N 33 W 62
20	N 28 W 54	N 40 W 62	N 11 E 43	N 15 W 74	N 19 W 72	N 04 W 38	N 10 W 38	N 18 E 27	N 08 W 66	N 50 W 48	N 86 E 30	N 36 W 69
25	N 26 W 56	N 24 W 59	N 12 E 43	N 26 W 72	N 36 W 58	N 30 E 36	N 02 W 34	N 09 E 26	N 02 W 70	N 58 W 46	S 70 E 18	N 37 W 73
27½	N 28 W 51	N 37 W 36	N 10 E 44	N 21 W 70	N 34 W 59	N 40 E 31	N 08 W 36	N 04 E 34	N 16 W 73	N 47 W 43	S 76 E 10	N 45 W 68
30	N 31 W 46	N 10 W 35	N 12 E 37	N 20 W 73	N 42 W 53	N 46 E 23	N 20 W 35	N 11 W 36	N 14 W 75	N 50 W 43	N 79 W 9	N 44 W 64
	12 3^{44} a	**12** 7^{48} a	**12** 11^{38} a	**12** 3^{48} p	**12** 7^{48} p	**12** 11^{42} p	**21** 3^{47} a	**21** 7^{45} a	**21** 11^{46} a	**21** 3^{43} p	**21** 7^{45} p	**21** 11^{48} p
2½	N 47 W 55	N 53 W 89	N 28 W 40	N 53 W 71	N 38 W 85	N 60 E 20	N 25 W 64	0	N 45 W 41	N 13 W 58	S 44 E 21	N 23 W 19
5	N 49 W 65	N 43 W 87	N 07 W 28	N 41 W 66	N 26 W 78	S 13 E 19	N 33 W 66	S 45 W 25	N 61 W 57	N 20 W 66	S 50 E 37	N 52 W 22
10	N 51 W 67	N 41 W 78	N 58 E 21	N 32 W 64	N 25 W 72	S 40 E 20	N 34 W 73	S 26 E 21	N 48 W 57	N 23 W 70	S 43 E 36	N 65 W 53
15	N 53 W 71	N 36 W 71	S 69 E 20	N 32 W 62	N 28 W 60	S 74 E 29	N 33 W 71	S 25 E 24	N 51 W 50	N 26 W 53	S 26 E 32	N 56 W 33
20	N 45 W 73	N 32 W 58	S 46 E 14	N 20 W 60	N 28 W 48	S 64 E 28	N 35 W 64	S 55 E 32	N 35 W 42	N 40 W 27	S 18 E 30	N 50 W 32
25	N 40 W 74	N 34 W 56	S 16 W 4	N 21 W 55	N 28 W 47	S 64 E 27	N 50 W 58	S 43 E 31	N 14 W 35	S 08 E 21	S 27 E 32	N 44 W 25
27½	N 50 W 73	N 24 W 33	S 43 E 12	N 20 W 47	N 22 W 41	S 57 E 30	N 47 W 50	S 12 E 31	N 19 W 34	N 16 W 13	S 28 E 36	N 05 E 14
30	N 43 W 67	N 33 W 32	S 54 E 17	N 16 W 47	N 18 W 38	S 50 E 32	N 56 W 46	S 20 E 22	N 04 W 30	S 65 W 12	S 28 E 38	N 23 E 16
	13 3^{38} a	**13** 7^{43} a	**13** 11^{42} a	**13** 3^{44} p	**13** 7^{46} p	**13** 11^{48} p	**22** 3^{44} a	**22** 7^{48} a	**22** 11^{45} a	**22** 3^{50} p	**22** 7^{40} p	**22** 11^{44} p
2½	N 43 W 46	N 37 W 59	S 12 W 33	S 84 W 37	N 38 W 76	N 09 E 16	N 30 W 30	S 73 E 33	N 61 W 25	N 16 W 74	S 78 E 36	0
5	N 45 W 52	N 30 W 65	S 05 W 37	S 81 W 44	N 41 W 78	N 79 E 33	N 26 W 36	S 61 E 39	N 28 W 31	N 30 W 70	S 73 E 39	N 67 E 22
10	N 30 W 53	N 24 W 71	S 28 E 35	S 84 W 44	N 37 W 75	S 77 E 32	N 33 W 38	S 60 E 43	N 40 W 36	N 31 W 73	S 67 E 38	N 64 W 32
15	N 30 W 48	N 20 W 62	S 46 E 44	S 80 W 45	N 28 W 74	N 88 E 31	N 38 W 43	S 46 E 40	N 32 W 43	N 29 W 74	S 05 W 32	N 37 W 32
20	N 29 W 43	N 26 W 52	S 50 E 50	S 76 W 48	N 28 W 66	S 12 E 34	N 40 W 45	S 34 E 38	N 21 W 42	N 30 W 48	S 57 E 30	N 13 W 33
25	N 28 W 31	N 48 W 44	S 44 E 48	S 80 W 49	N 25 W 44	S 34 E 30	N 37 W 48	S 31 E 41	N 30 W 35	N 27 W 40	S 50 E 26	N 08 E 34
27½	N 25 W 34	N 45 W 35	S 51 E 43	S 84 W 48	N 18 W 34	S 37 E 21	N 35 W 50	S 36 E 40	N 20 W 42	N 20 W 39	S 31 E 20	N 02 E 34
30	N 18 W 31	N 66 W 36	S 44 E 40	S 88 W 45	N 20 W 26	S 43 E 21	N 38 W 44	S 27 E 39	N 06 W 45	N 40 W 34	S 64 E 23	N 05 W 36
	14 3^{48} a	**14** 7^{38} a	**14** 11^{48} a	**14** 3^{50} p	**14** 7^{44} p	**14** 11^{48} p	**23** 3^{38} a	**23** 7^{44} a	**23** 11^{47} a	**23** 3^{44} p	**23** 7^{48} p	**23** 11^{41} p
2½	N 78 W 21	N 38 W 80	0	S 42 W 19	N 27 W 59	N 18 W 16	N 13 W 48	N 85 E 25	N 79 E 20	N 11 E 25	N 87 E 25	0
5	N 63 E 46	N 40 W 83	N 28 W 11	S 71 W 14	N 31 W 65	N 84 E 29	N 23 W 58	E 30	N 71 W 19	N 50 W 53	S 85 E 29	N 14 E 16
10	N 46 W 40	N 32 W 75	N 70 E 24	N 34 W 13	N 46 W 71	N 54 E 28	N 34 W 68	S 88 E 33	N 26 W 29	N 47 W 54	S 77 E 28	S 86 E 16
15	N 40 W 46	N 33 W 66	S 76 E 29	N 70 W 18	N 29 W 75	N 52 E 27	N 18 W 65	S 78 E 35	N 02 E 33	N 36 W 52	S 51 E 36	S 50 E 16
20	N 43 W 60	N 32 W 59	S 54 E 22	N 58 W 20	N 60 W 77	N 65 E 22	N 06 W 47	S 83 E 37	N 21 W 33	N 30 W 47	S 53 E 37	N 34 E 14
25	N 36 W 60	N 17 W 52	S 40 E 28	N 46 W 22	N 68 W 64	N 74 E 22	N 37 W 26	S 84 E 40	N 07 W 32	N 34 W 45	S 24 E 40	N 57 E 11
27½	N 14 W 50	N 09 W 34	S 37 E 27	N 10 E 23	N 48 W 55	S 65 W 7	N 36 W 36	S 67 E 42	N 17 E 34	N 41 W 43	S 52 E 40	N 59 E 17
30	N 15 W 42	N 34	S 24 E 33	N 05 W 17	N 24 W 46	S 36 E 19	N 46 W 26	S 48 E 43	N 14 W 35	N 33 W 42	S 59 E 43	S 67 W 4
	15 3^{48} a	**15** 7^{42} a	**15** 11^{42} a	**15** 3^{48} p	**15** 7^{48} p	**15** 11^{44} p	**24** 3^{46} a	**24** 7^{38} a	**24** 11^{41} a	**24** 3^{46} p	**24** 7^{42} p	**24** 11^{38} p
2½	S 62 W 16	N 38 W 73	N 35 W 19	S 03 E 64	S 55 W 48	S 31 E 7	N 16 W 32	N 52 E 40	N 05 E 22	N 21 W 21	N 15 W 7	S 83 E 25
5	S 69 W 25	N 35 W 84	N 34 E 19	S 69	S 72 W 47	S 44 E 14	N 38 W 59	N 52 E 24	N 02 W 26	N 13 W 33	N 16 W 13	S 07 E 27
10	N 54 W 24	N 18 W 84	S 50 E 20	S 06 E 60	N 76 W 49	S 37 E 19	N 25 W 57	N 63 E 23	N 05 W 32	N 20 W 52	N 08 E 16	S 06 E 28
15	N 10 W 33	N 16 W 63	S 11 E 24	S 66 W 25	N 10 W 36	S 33 E 24	N 34 W 59	S 70 E 24	N 03 W 34	N 20 W 56	N 32 E 21	S 60 E 30
20	N 32	N 16 W 51	S 01 W 23	N 01 E 16	N 80 W 18	S 30 E 33	N 37 W 54	S 86 E 26	N 11 W 33	N 22 W 53	N 03 E 24	S 74 E 35
25	N 05 W 32	N 13 W 45	S 14 E 17	S 78 E 20	N 34 W 20	S 26 E 35	N 27 W 68	S 70 E 22	N 14 W 32	N 40 W 53	N 09 E 28	S 49 E 9
27½	N 01 E 41	N 21 W 22	S 27 E 28	N 70 E 35	N 03 W 7	S 26 E 38	N 22 W 57	S 79 E 25	N 04 E 24	N 35 W 52	N 40 E 24	S 48 E 30
30	N 05 E 37	N 52 W 28	S 26 E 26	N 46 E 33	S 88 E 10	S 30 E 38	N 38 W 54	S 27 E 20	N 15 E 17	N 34 W 50	N 25 E 22	S 63 E 24
	16 3^{48} a	**16** 7^{48} a	**16** 11^{44} a	**16** 3^{38} p	**16** 7^{42} p	**16** 11^{38} p	**25** 3^{40} a	**25** 7^{44} a	**25** 11^{39} a	**25** 3^{38} p	**25** 7^{42} p	**25** 11^{38} p
2½	S 21 E 34	N 68 W 53	N 33 W 11	S 20 E 46	N 51 W 34	N 13 W 34	N 32 E 36	N 57 E 30	N 64 E 25	N 10 E 31	N 87 E 25	N 16 W 21
5	S 23 E 34	N 51 W 58	N 36 W 14	S 23 E 34	N 53 W 39	N 10 W 29	N 04 W 42	N 55 E 33	N 73 E 33	N 25 E 37	N 36 E 21	N 11 W 5
10	S 24 E 33	N 52 W 57	N 08 W 19	S 17 E 38	N 53 W 36	N 20 W 8	N 24 W 58	N 30 E 29	N 79 E 31	N 13 E 43	N 10 W 32	N 16 W 33
15	S 16 E 31	N 30 W 55	N 02 W 18	S 18 E 34	N 64 W 29	S 60 W 5	N 34 W 63	N 29 E 30	N 63 E 12	N 06 E 46	N 25 W 39	N 18 W 43
20	S 01 E 25	N 04 W 48	N 70 E 14	S 18 E 12	N 55 W 21	S 09 E 14	N 36 W 76	N 08 E 22	N 42 E 19	N 04 E 48	N 22 W 44	N 08 W 45
25	S 01 E 25	N 43	S 68 E 19	S 19 E 20	N 31 W 15	S 06 E 20	N 24 W 69	N 04 E 20	N 39 E 22	N 13 W 50	N 03 W 45	N 36
27½	S 10 E 20	N 01 W 41	S 20 E 22	S 25 E 20	N 20 E 12	S 17	N 21 W 67	N 12 E 19	N 50 E 18	N 17 W 51	N 25 W 43	N 05 W 34
30	S 26 E 24	N 05 E 41	S 04 W 28	S 26 E 20	N 21 E 16	S 06 E 13	N 41 W 64	N 77 E 21	N 43 E 18	N 10 W 51	N 24 W 34	N 05 W 33
	17 3^{42} a	**17** 7^{48} a	**17** 11^{48} a	**17** 3^{48} p	**17** 7^{39} p	**17** 11^{45} p	**26** 3^{46} a	**26** 7^{44} a	**26** 11^{45} a	**26** 3^{38} p	**26** 7^{46} p	**26** 11^{43} p
2½	S 75 E 30	N 18 W 37	N 10 W 40	S 55 E 21	0	N 23 W 33	N 02 E 48	N 39 E 36	N 76 E 29	N 07 E 58	N 27 E 50	N 52 E 33
5	S 70 E 34	N 16 W 32	N 05 W 46	S 56 E 25	N 12 W 16	N 50 W 48	N 09 W 58	N 12 W 44	N 46 E 21	N 07 E 63	N 10 E 52	N 33 E 39
10	S 68 E 36	N 10 W 45	N 02 W 51	S 63 E 32	N 29 W 16	N 54 W 51	N 32 W 78	N 47 W 47	N 21 E 24	N 13 W 61	N 07 E 50	N 18 E 38
15	S 58 E 37	N 10 W 50	N 19 W 43	S 55 E 34	N 42 W 26	N 49 W 33	N 31 W 79	N 28 W 46	N 43 E 29	N 34 W 64	N 06 E 46	N 25 E 30
20	S 66 E 37	N 18 W 51	N 38 W 28	S 46 E 33	N 52 W 33	N 58 W 14	N 35 W 76	N 18 W 56	N 28 E 22	N 42 W 71	N 07 E 47	N 29 E 25
25	S 56 E 30	N 16 W 49	N 45 W 24	S 50 E 30	N 63 W 30	N 74 W 9	N 34 W 77	N 18 W 67	N 26 E 26	N 24 W 64	N 07 E 45	N 34 E 25
27½	S 25 W 24	N 12 W 39	N 26 W 17	S 13 E 30	N 02 W 31	N 74 W 9	N 49 W 76	N 55 W 65	N 25 E 18	N 62 W 56	N 01 E 42	N 16 E 27
30	S 37 E 15	N 16 W 34	N 70 W 15	S 10 E 25	N 02 E 33	N 72 W 14	N 45 W 76	N 32 W 56	N 23 E 21	N 33 W 54	N 42	N 05 E 31
	18 3^{42} a	**18** 7^{44} a	**18** 11^{46} a	**18** 3^{49} p	**18** 7^{48} p	**18** 11^{46} p	**27** 3^{40} a	**27** 7^{48} a	**27** 11^{39} a	**27** 3^{40} p	**27** 7^{38} p	**27** 11^{38} p
2½	S 83 E 34	N 53 W 13	N 38 W 50	S 46 E 21	S 12 W 19	N 43 W 56	N 48	N 71 E 58	N 72 E 40	N 21 E 33	N 52 E 41	S 70 E 6
5	S 76 E 29	N 55 W 16	N 43 W 52	S 47 E 22	S 14 W 19	N 41 W 52	N 04 W 58	N 74 E 70	N 81 E 39	N 05 W 39	N 07 E 48	N 84 E 43
10	S 66 E 22	N 53 W 18	N 45 W 48	S 50 E 29	S 36 W 14	N 54 W 44	N 16 W 71	N 56 E 78	N 14 W 40	N 11 W 45	N 10 W 57	N 79 E 38
15	S 50 E 13	N 56 W 21	N 44 W 34	S 26 E 26	S 46 W 10	N 44 W 22	N 20 W 75	N 59 E 75	S 55 E 32	N 11 W 50	N 16 W 56	S 43 E 17
20	S 02 E 17	N 42 W 26	N 44 W 29	S 16 E 21	S 49 W 10	N 43 W 6	N 21 W 78	N 66 E 76	N 68 E 30	N 15 W 55	N 35 W 64	S 04 E 5
25	S 03 W 17	N 45 W 31	N 43 W 26	S 24 E 23	S 50 W 9	N 42 W 6	N 24 W 78	N 57 E 70	N 80 E 30	N 04 W 53	N 13 W 61	N 84 E 5
27½	S 15 E 19	N 29 W 35	N 33 W 25	S 22 E 26	S 48 W 9	N 29 W 6	N 32 W 79	N 63 E 63	S 50 E 26	N 14 W 52	N 06 W 57	N 59 E 29
30	S 17 E 17	N 33 W 36	N 31 W 25	S 23 E 24	N 20 E 4	S 56 E 3	N 06 W 75	N 70 E 53	N 54 E 20	N 07 W 50	N 20 W 49	N 74 E 27
	19 3^{46} a	**19** 7^{38} a	**19** 11^{44} a	**19** 3^{46} p	**19** 7^{44} p	**19** 11^{48} p	**28** 3^{39} a	**28** 7^{42} a	**28** 11^{45} a	**28** 3^{39} p	**28** 7^{48} p	**28** 11^{48} p
2½	N 57 E 19	S 47 E 11	N 39 W 31	N 72 E 30	S 73 E 27	N 55 W 33	N 21 W 33	N 63 W 30	S 23 E 74	S 28 E 25	N 53 W 20	S 84 E 46
5	N 60 E 20	0	N 43 W 37	N 71 E 23	S 70 E 29	N 30 W 37	N 03 W 39	N 76 W 34	S 23 E 79	S 30 E 30	N 50 W 21	S 38 E 48
10	N 59 E 20	N 63 W 11	N 26 W 43	N 63 E 20	S 66 E 32	N 27 W 42	N 34 W 45	N 66 W 36	S 16 E 72	S 26 E 33	N 58 W 30	S 38 E 50
15	S 54 E 18	N 67 W 14	N 18 W 43	N 40 E 14	S 64 E 32	N 28 W 40	N 16 W 48	N 71 W 37	S 17 E 73	S 22 E 35	N 32 W 45	S 1 E 49
20	S 40 E 16	N 77 W 7	N 10 W 36	N 50 E 13	S 56 E 33	N 10 W 43	N 35 W 43	N 73 W 43	S 15 E 74	S 28 E 33	N 58 W 41	S 55 E 47
25	S 26 E 15	S 66 W 5	N 08 W 32	S 04 W 17	S 53 E 24	N 10 W 48	N 34 W 41	N 79 W 45	S 19 E 68	S 28 E 34	N 24 W 35	S 46 E 48
27½	S 29 E 14	E 2	N 10 W 31	S 17	S 56 E 16	N 01 W 53	N 22 W 40	N 78 W 42	S 29 E 57	S 20 E 20	N 09 W 28	S 25 E 47
30	S 26 E 13	E 2	N 10 W 29	S 01 W 15	S 43 W 4	N 02 W 49	N 10 W 37	N 76 W 38	S 20 E 60	S 15 E 13	N 22 W 27	S 37 E 44

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	**29** 3^{42} a	**29** 7^{38} a	**29** 11^{43} a	**29** 3^{46} p	**29** 7^{44} p	**29** 11^{48} p
2½	N 52 E 11	N 23 W 59	N 27 E 25	N 41 E 40	N 21 W 45	S 73 E 29
5	N 59 E 16	N 16 W 45	S 67 E 29	N 51 E 46	N 29 W 48	N 74 E 33
10	N 63 E 15	N 27 W 53	S 65 E 24	N 37 E 48	N 17 W 50	N 62 E 32
15	N 40 E 18	N 18 W 56	N 73 E 27	N 16 E 43	N 27 W 52	S 78 E 38
20	N 39 E 20	N 11 W 41	N 81 E 31	N 31 W 44	N 01 W 47	N 88 E 37
25	N 33 E 20	N 29 W 49	N 82 E 30	N 20 W 42	N 10 E 44	N 80 E 43
27½	N 23 E 14	N 44 W 54	S 85 E 21	N 13 W 41	N 11 W 41	N 68 E 43
30	N 25 E 13	N 40 W 53	S 62 E 21	N 10 W 37	N 17 W 37	N 65 E 44

	30 3^{39} a	**30** 7^{40} a	**30** 11^{42} a	**30** 3^{50} p	**30** 7^{38} p	**30** 11^{41} p
2½	N 04 E 16	N 31 W 70	N 38 W 30	N 43 W 25	N 13 W 36	S 70 W 20
5	N 34 W 25	N 22 W 75	N 50 W 14	N 46 W 30	N 23 W 53	S 68 W 25
10	N 09 W 24	N 26 W 76	N 48 W 10	N 41 W 30	N 28 W 57	S 57 W 26
15	N 04 W 28	N 31 W 65	N 60 W 8	N 53 W 33	N 19 W 56	S 65 W 25
20	N 08 W 31	N 35 W 75	S 46 E 3	N 57 W 37	N 19 W 54	S 56 W 22
25	N 19 W 35	N 34 W 64	S 33 E 13	N 30 W 34	N 39 W 41	S 51 W 19
27½	N 05 W 30	N 22 W 63	S 44 E 17	N 25 W 26	N 33 W 41	N 61 E 7
30	N 07 W 30	N 22 W 61	S 33 E 12	N 28 W 20	N 43 W 27	N 89 E 12

	1 3^{47} a	**1** 7^{38} a	**1** 11^{42} a	**1** 3^{38} p	**1** 7^{45} p	**1** 11^{40} p
2½	N 72 E 30	N 46 W 32	N 02 E 16	S 43 E 46	N 77 E 40	N 07 E 16
5	S 53 E 24	N 28 W 59	N 75 E 21	S 58 E 45	N 28 E 45	N 05 E 29
10	S 83 E 22	N 26 W 61	N 05 E 45	S 42 E 37	N 16 W 46	N 08 W 32
15	S 73 E 22	N 28 W 59	N 40 W 45	S 47 E 36	N 08 W 48	N 08 W 38
20	S 58 E 21	N 18 W 57	N 30 W 48	S 29 E 36	N 16 W 49	N 14 W 31
25	S 40 E 20	N 08 W 47	N 60 W 30	S 48 E 42	N 22 W 36	N 18 W 34
27½	S 54 E 20	N 21 W 40	S 41 W 30	S 36 E 34	N 10 W 39	N 20 W 36
30	S 51 E 20	N 01 E 47	S 74 W 23	S 43 E 36	N 03 W 42	N 08 W 36

	2 3^{44} a	**2** 7^{47} a	**2** 11^{38} a	**2** 3^{40} p	**2** 7^{40} p	**2** 11^{45} p
2½	S 46 E 26	N 48 W 55	N 64 W 48	S 18 E 46	S 37 E 25	S 37 W 36
5	S 54 E 33	N 38 W 65	N 56 W 52	S 18 E 55	S 03 E 33	S 50 W 41
10	S 50 E 34	N 25 W 67	N 52 W 57	S 18 E 51	S 09 W 28	S 46 W 40
15	S 58 E 36	N 23 W 65	N 70 W 67	S 14 E 45	S 18 W 18	S 47 W 29
20	S 72 E 32	N 26 W 62	N 49 W 57	S 12 E 54	S 19 E 26	N 46 W 36
25	S 80 E 21	N 24 W 60	N 56 W 62	S 20 E 53	S 12 W 24	N 34 W 36
27½	S 77 E 17	N 29 W 66	N 51 W 61	S 20 E 47	N 80 E 25	N 58 W 32
30	N 89 E 7	N 30 W 65	N 62 W 54	S 27 E 52	N 73 E 21	N 62 W 29

	3 3^{48} a	**3** 7^{44} a	**3** 11^{44} a	**3** 3^{45} p	**3** 7^{46} p	**3** 11^{40} p
2½	S 40 E 59	N 36 W 19	N 63 W 48	S 29 E 53	S 13 E 40	N 66 W 11
5	S 36 E 58	N 53 W 21	N 32 W 68	S 16 E 52	S 11 E 46	0
10	S 50 E 64	N 65 W 25	N 36 W 60	S 15 E 50	S 08 E 44	S 25 W 11
15	S 36 E 65	N 74 W 28	N 14 W 61	S 16 E 48	S 01 W 49	N 84 W 19
20	S 47 E 52	N 56 W 33	N 20 W 64	S 15 E 44	S 16 E 45	N 80 W 14
25	S 41 E 51	N 47 W 33	N 61 W 47	S 35 E 45	S 20 E 44	N 79 E 3
27½	S 88 E 41	N 43 W 34	N 60 W 46	S 24 E 44	S 18 E 38	N 79 E 3
30	N 83 E 28	N 41 W 33	N 44 W 49	N 32 E 37	S 05 E 34	S 70 E 12

	4 3^{40} a	**4** 7^{48} a	**4** 11^{42} a	**4** 3^{48} p	**4** 7^{39} p	**4** 11^{47} p
2½	S 70 E 34	N 89 E 24	N 17 E 59	0	S 84 E 25	N 05 E 40
5	S 65 E 52	N 73 E 34	N 30 W 69	N 17 E 19	S 85 E 25	N 18 W 39
10	S 72 E 50	N 58 E 33	N 28 W 77	N 44 W 19	S 50 E 28	N 40 W 49
15	S 59 E 54	S 73 E 27	N 27 W 78	N 32 W 29	S 69 E 31	N 24 W 50
20	S 26 E 44	N 72 E 26	N 34 W 71	N 06 E 22	S 49 E 31	N 34 W 48
25	S 40 E 41	N 78 E 21	N 28 W 72	N 18 W 27	S 57 E 30	N 42 W 49
27½	S 42 E 34	S 89 E 21	N 35 W 67	N 14 W 25	S 27	N 36 W 48
30	S 19 E 30	N 57 E 21	N 30 W 66	N 15 W 20	S 44 E 21	N 29 W 48

	5 3^{45} a	**5** 7^{41} a	**5** 11^{48} a	**5** 3^{40} p	**5** 7^{40} p	**5** 11^{44} p
2½	N 24 E 16	N 77 E 29	N 18 W 48	N 07 E 37	S 58 E 44	N 17 W 20
5	N 50 W 19	S 76 E 21	N 33 W 70	N 12 W 39	S 48 E 48	N 20 W 25
10	N 04 E 23	S 80 E 28	N 20 W 77	N 32 W 33	S 40 E 51	N 18 W 30
15	N 26 W 25	S 37 E 24	N 35 W 64	N 44 W 35	S 42 E 56	N 28 W 30
20	N 40 W 28	N 86 E 31	N 31 W 72	N 65 W 29	S 31 E 55	N 23 W 34
25	N 30 W 27	N 80 E 32	N 41 W 59	N 42 W 28	S 50 E 57	N 24 W 37
27½	N 53 W 21	S 80 E 33	N 40 W 58	N 60 W 24	S 34 E 56	N 26 W 45
30	N 20 W 20	S 77 E 30	N 41 W 57	N 55 W 20	S 20 E 51	N 32 W 46

	6 3^{48} a	**6** 7^{44} a	**6** 11^{42} a	**6** 3^{50} p	**6** 7^{44} p	**6** 11^{48} p
2½	N 43 W 37	N 87 E 36	N 07 E 46	N 07 E 64	N 77 E 23	N 03 W 48
5	N 20 W 39	S 86 E 36	N 18 W 59	N 40 W 52	N 84 E 23	N 13 W 58
10	N 16 W 45	N 84 E 40	N 21 W 74	N 34 W 68	S 58 E 32	N 08 W 57
15	N 48 W 48	S 34 E 40	N 15 W 63	N 28 W 55	S 46 E 35	N 19 W 44
20	N 67 W 49	S 60 E 34	N 25 W 63	N 40 W 59	S 38 E 40	N 07 W 31
25	N 51 W 47	S 62 E 45	N 18 W 60	N 29 W 39	S 44 E 39	N 05 W 30
27½	N 50 W 43	S 27 E 46	N 25 W 62	N 46 W 39	S 43 E 44	N 14 E 30
30	N 46 W 42	S 53 E 37	N 24 W 66	N 40 W 38	S 46 E 45	N 04 W 24

	7 3^{42} a	**7** 7^{48} a	**7** 11^{44} a	**7** 3^{40} p	**7** 7^{40} p	**7** 11^{41} p
2½	N 15 W 46	0	N 41 W 53	N 17 W 48	0	N 27 E 19
5	N 15 W 57	S 14 E 19	N 38 W 58	N 35 W 72	S 61 E 19	N 21 E 22
10	N 13 W 70	N 72 E 24	N 35 W 46	N 35 W 64	S 78 E 21	N 15 W 18
15	N 09 W 76	S 33 E 25	N 30 W 32	N 35 W 71	S 76 E 20	N 31 W 22
20	N 02 W 77	S 36 E 28	N 17 W 32	N 35 W 68	S 54 E 22	S 04 E 5
25	N 14 W 66	S 70 E 27	N 05 E 32	N 32 W 53	S 79 E 27	N 49 W 20
27½	N 18 W 64	S 67 E 27	N 09 W 25	N 40 W 47	S 74 E 27	N 33 W 14
30	N 29 W 42	S 69 E 30	N 09 E 23	N 42 W 45	S 80 E 24	N 20 E 14

	8 3^{48} a	**8** 7^{44} a	**8** 11^{41} a	**8** 3^{48} p	**8** 7^{47} p	**8** 11^{39} p
	N 23 W 46	S 55 E 25	N 62 E 19	N 21 W 46	S 14 W 21	S 88 E 11
	N 42 W 52	S 55 E 30	N 86 E 13	N 31 W 58	E 25	N 76 E 16
	N 39 W 55	S 53 E 33	S 30 W 12	N 14 W 57	S 79 E 24	S 27 E 16
	N 44 W 55	S 47 E 38	N 84 E 10	N 22 W 55	S 70 E 28	S 53 E 15
	N 40 W 53	S 39 E 43	S 83 E 10	N 26 W 47	S 70 E 31	N 89 E 18
	N 39 W 50	S 36 E 33	S 61 E 14	N 30 W 46	S 68 E 30	S 18 E 15
	N 42 W 43	S 34 E 31	S 86 E 18	N 35 W 45	S 70 E 34	S 83 E 13
	N 46 W 38	S 13 E 33	S 80 E 20	N 43 W 41	S 71 E 34	S 83 E 9

	9 3^{38} a	**9** 7^{42} a	**9** 11^{49} a	**9** 3^{47} p	**9** 7^{44} p	**9** 11^{48} p
	N 06 E 46	0	S 53 E 20	N 18 W 25	S 30 E 20	S 46 E 33
	N 24 W 48	N 77 E 19	S 51 E 25	N 29 W 34	S 13 E 25	S 43 E 39
	N 26 W 50	N 85 E 14	S 46 E 30	N 31 W 38	S 04 W 24	S 53 E 45
	N 36 W 49	S 85 E 12	S 49 E 33	N 41 W 41	S 02 W 30	S 30 E 44
	N 35 W 50	S 64 E 14	S 53 E 35	N 38 W 39	S 18 W 32	S 20 E 42
	N 37 W 43	S 58 E 15	S 54 E 41	N 41 W 38	S 11 E 37	S 26 E 39
	N 38 W 43	S 46 E 15	S 57 E 30	N 33 W 42	S 12 W 34	S 23 E 36
	N 38 W 40	S 48 E 14	S 62 E 18	N 30 W 41	S 28 W 36	S 19 E 33

	10 3^{40} a	**10** 7^{42} a	**10** 11^{48} a	**10** 3^{42} p	**10** 7^{48} p	**10** 11^{44} p
	N 28 W 33	S 39 W 11	S 60 E 40	0	0	S 43 E 7
	N 20 W 46	N 32 E 30	S 52 E 28	N 37 W 37	N 13 W 16	S 40 E 14
	N 02 W 45	S 85 W 24	S 43 E 31	N 31 W 44	N 31 W 25	S 46 E 19
	N 20 W 46	N 12 W 14	S 29 E 31	N 28 W 44	N 29 W 28	S 49 E 18
	N 32 W 49	N 64 W 10	S 35 E 30	N 26 W 46	N 32 W 23	S 44 E 21
	N 33 W 45	N 18 W 13	S 31 E 30	N 24 W 48	N 62 W 23	S 43 E 25
	N 42 W 40	N 59 W 17	S 38 E 30	N 20 W 49	N 47 W 23	S 40 E 27
	N 40 W 39	N 71 W 17	S 18 E 20	N 18 W 49	N 37 W 22	S 41 E 27

	11 3^{48} a	**11** 7^{44} a	**11** 11^{46} a	**11** 3^{48} p	**11** 7^{40} p	**11** 11^{48} p
	N 29 W 37	N 22 W 30	S 59 E 48	N 20 E 25	N 03 W 36	N 87 E 48
	N 30 W 45	N 30 W 32	S 12 E 43	N 74 W 33	N 37 W 32	S 65 E 48
	N 29 W 44	N 44 W 36	S 27 E 51	N 53 W 32	N 25 W 31	S 62 E 51
	N 28 W 43	N 55 W 32	S 17 E 45	N 10 W 31	N 53 W 35	S 51 E 50
	N 31 W 40	N 60 W 31	S 26 E 44	N 48 W 30	N 60 W 33	S 51 E 48
	N 28 W 42	N 70 W 24	S 29 E 45	N 11 W 29	N 58 W 30	S 60 E 43
	N 33 W 39	N 69 W 24	S 29 E 42	N 04 W 27	N 50 W 36	S 73 E 46
	N 30 W 39	N 74 W 24	S 01 E 42	N 62 W 30	N 34 W 35	S 53 E 42

	12 3^{44} a	**12** 7^{46} a	**12** 11^{48} a	**12** 3^{48} p	**12** 7^{39} p	**12** 11^{41} p
	N 05 E 25	N 08 W 59	N 77 E 36	N 45 E 37	N 13 W 36	N 77 E 40
	N 03 W 24	N 22 W 69	N 70 E 36	N 22 W 46	N 28 W 55	S 77 E 39
	N 30	N 46 W 67	N 78 E 35	N 11 W 69	N 33 W 78	S 83 E 30
	N 10 W 36	N 16 W 54	N 38 E 37	N 25 W 66	N 46 W 79	N 89 E 26
	N 13 W 37	N 56 W 64	N 37 E 34	N 20 W 68	N 39 W 72	N 63 E 21
	N 16 W 42	N 44 W 72	N 26 E 38	N 26 W 68	N 35 W 65	N 79 E 17
	N 13 W 45	N 30 W 81	N 88 E 19	N 31 W 67	N 31 W 69	S 87 E 30
	N 18 W 45	N 31 W 79	N 59 E 24	N 34 W 70	N 38 W 67	S 88 E 25

	13 3^{48} a	**13** 7^{44} a	**13** 11^{38} a	**13** 3^{42} p	**13** 7^{48} p	**13** 11^{40} p
	N 02 E 46	N 14 E 41	N 77 E 25	N 03 E 21	N 21 W 59	N 29 E 25
	N 17 W 52	N 17 E 48	N 84 E 31	N 24 W 29	N 62 W 58	N 29 E 33
	N 29 W 50	N 16 W 63	S 76 E 28	N 49 W 32	N 42 W 61	N 22 E 34
	N 23 W 56	N 04 E 70	S 61 E 20	N 44 W 31	N 31 W 59	N 07 E 30
	N 30 W 46	N 26 W 73	S 76 E 23	N 14 W 30	N 29 W 49	N 89 E 23
	N 23 W 45	N 21 W 74	N 80 E 22	N 27 W 25	N 44 W 47	N 29 E 21
	N 10 W 44	N 29 W 73	N 82 E 17	N 63 W 18	N 37 W 44	S 30 W 10
	N 23 W 43	N 24 W 69	N 88 W 7	N 28 W 14	N 36 W 42	S 30 W 10

	14 3^{41} a	**14** 7^{48} a	**14** 11^{39} a	**14** 3^{44} p	**14** 7^{44} p	**14** 11^{48} p
	N 42 E 53	N 02 E 67	N 07 E 36	N 77 E 40	N 31 W 53	N 02 E 29
	N 34 E 49	N 14 W 75	N 20 W 36	N 73 E 24	N 40 W 58	N 02 E 40
	S 16 E 48	N 07 W 73	N 05 E 47	N 30 W 33	N 33 W 70	N 02 E 38
	N 24 W 50	N 19 W 70	N 09 E 46	N 27 E 31	N 36 W 67	N 30 W 44
	N 08 W 48	N 31 W 72	N 19 E 45	N 15 E 38	N 38 W 58	N 36 W 44
	N 18 W 46	N 18 W 65	N 24 W 52	N 12 E 44	N 30 W 49	N 08 W 39
	N 18 W 48	N 32 W 64	N 29 W 48	N 23 E 43	N 29 W 44	N 19 W 38
	N 24 W 48	N 18 W 63	N 27 W 44	N 04 W 43	N 26 W 39	N 16 W 36

	15 3^{40} a	**15** 7^{45} a	**15** 11^{48} a	**15** 3^{40} p	**15** 7^{48} p	**15** 11^{42} p
	N 18 W 25	N 17 E 59	N 71 W 36	S 88 E 33	N 41 W 40	S 76 E 25
	N 08 E 33	N 09 E 58	N 27 W 59	N 78 E 31	N 33 W 46	E 25
	N 14 W 31	N 24 W 70	N 22 W 46	N 56 E 28	N 22 W 51	S 73 E 32
	N 48 W 38	N 16 W 65	S 34 E 9	S 55 E 32	N 35 W 49	S 70 E 31
	N 32 W 37	N 50 W 60	S 38 E 40	N 06 E 28	N 31 W 47	N 03 W 20
	N 24 W 29	N 13 W 66	S 26 E 39	N 80 W 33	N 33 W 48	N 03 W 36
	N 20 W 29	S 70 W 64	S 42 E 39	N 77 W 30	N 34 W 49	N 06 E 44
	N 33 W 33	N 49 W 50	S 06 W 38	N 75 W 27	N 34 W 46	N 46 E 33

	16 3^{48} a	**16** 7^{44} a	**16** 11^{45} a	**16** 3^{39} p	**16** 7^{42} p	**16** 11^{48} p
	S 18 E 37	N 20 W 25	N 78 W 16	S 60 E 20	N 03 W 33	N 58 W 33
	S 23 E 37	N 02 W 39	N 02 E 30	S 18 E 25	N 18 E 43	N 81 W 25
	S 32 E 38	N 38 W 38	N 78 W 25	S 17 E 32	N 30 W 45	N 24 W 24
	S 26 E 37	N 26 W 44	N 64 W 36	S 53 E 36	N 41 W 35	N 24 W 23
	S 34 E 43	N 18 W 49	N 75 W 31	S 58 E 30	N 36 W 47	N 11 W 23
	S 42 E 48	N 34 W 45	N 46 W 37	S 38 E 34	N 33 W 48	S 01 E 27
	S 39 E 47	N 36 W 44	N 71 W 34	S 05 W 30	N 48 W 42	S 48 E 28
	S 37 E 44	N 31 W 46	N 38 W 24	S 02 E 30	N 40 W 36	N 52 E 33

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	17 3^{44} a	17 7^{48} a	17 11^{38} a	17 3^{48} p	17 7^{39} p	17 11^{40} p	26 3^{38} a	26 7^{44} a	26 11^{33} a	26 3^{49} p	26 7^{40} p	26 11^{18} p
2½	S 53 E 25	N 63 W 37	0	S 43 E 33	N 13 W 25	N 08 W 29	N 77 E 25	N 27 E 48	S 85 E 25	N 27 E 11	N 48 W 34	S 25 E 48
5	S 49 E 30	N 02 W 43	N 03 W 25	S 43 E 39	N 20 W 25	N 40 W 49	N 15 E 40	N 05 W 55	S 67 E 29	N 21 W 34	N 52 W 28	S 39 E 58
10	S 53 E 36	N 20 W 49	N 14 W 46	S 35 E 45	N 08 W 32	N 48 W 51	N 10 E 38	N 20 W 58	S 49 E 30	N 52 W 43	N 61 W 29	S 33 E 65
15	S 46 E 43	N 18 W 50	N 26 W 44	S 34 E 46	N 29	N 43 W 52	N 08 W 30	N 03 E 64	S 33 E 34	N 27 W 41	N 74 W 34	S 25 E 63
20	S 47 E 45	N 26 W 48	N 29 W 49	S 18 E 28	N 24 W 44	N 72 W 48	N 17 W 30	N 10 W 57	N 50 E 30	N 27 W 39	S 60 W 31	S 27 E 52
25	S 48 E 41	N 29 W 46	N 17 W 48	S 16 E 27	N 40 W 44	N 22 W 44	N 30 W 34	N 09 W 48	N 01 E 26	N 36 W 33	S 82 W 21	S 14 E 55
27½	S 33 E 30	N 29 W 45	N 58 W 48	S 36 E 27	N 34 W 36	N 21 W 40	N 28 W 36	N 30 W 50	S 22 E 19	N 28 W 37	N 43 W 23	S 10 E 49
30	S 32 E 25	N 34 W 43	N 78 W 39	S 42 E 26	N 17 W 35	N 35 W 42	N 15 W 28	N 23 W 39	S 60 E 21	N 32 W 36	N 70 W 17	S 20 E 48
	18 3^{46} a	18 7^{44} a	18 11^{41} a	18 3^{38} p	18 7^{48} p	18 11^{45} p	27 3^{44} a	27 7^{39} a	27 11^{49} a	27 3^{40} p	27 7^{10} p	27 11^{39} p
2½	S 85 E 33	N 10 W 55	N 18 W 76	N 37 E 25	N 08 W 33	N 13 W 44	N 56 W 21	N 43 W 21	S 43 E 40	N 36 W 11	N 41 W 24	S 63 E 54
5	S 47 E 32	N 14 W 56	N 28 W 78	S 14 E 25	N 03 E 46	N 28 W 48	N 49 W 19	N 43 W 33	S 43 E 32	N 23 W 20	N 37 W 29	N 89 E 43
10	N 64 E 32	N 11 W 59	N 34 W 80	N 38 W 32	N 45 W 49	N 04 E 65	N 62 W 13	N 48 W 31	S 43 E 31	N 17 W 23	N 40 W 28	S 78 E 42
15	N 85 E 38	N 06 W 63	N 20 W 72	N 04 W 45	N 36 W 50	N 39 W 64	N 81 W 6	N 50 W 31	S 48 E 44	N 29 W 26	N 38 W 27	S 56 E 46
20	S 88 E 30	N 10 W 68	N 44 W 70	N 41 W 44	N 42 W 48	N 14 W 58	S 58 E 3	N 59 W 33	S 34 E 29	N 26 W 27	N 48 W 24	S 59 E 48
25	N 57 E 30	N 11 W 69	N 40 W 68	N 32 W 43	N 45 W 49	N 39 W 60	S 10 E 13	N 63 W 34	S 32 E 31	N 23 W 32	N 46 W 25	S 55 E 47
27½	N 66 E 20	N 14 W 68	N 50 W 62	N 23 W 42	N 35 W 50	N 32 W 49	S 23 E 17	N 54 W 36	S 36 E 35	N 20 W 33	N 36 W 25	S 48 E 42
30	N 59 E 20	N 03 W 62	N 30 W 60	N 26 W 34	N 30 W 51	N 35 W 49	S 29 E 20	N 60 W 29	S 36 E 23	N 16 W 33	N 43 W 24	S 40 E 44
	19 3^{42} a	19 7^{48} a	19 11^{38} a	19 3^{52} p	19 7^{46} p	19 11^{38} p	28 3^{49} a	28 7^{44} a	28 11^{40} a	28 3^{45} p	28 7^{39} p	28 11^{44} p
2½	N 72 E 33	N 18 W 40	N 28 W 58	N 42 E 33	S 53 E 25	N 28 W 40	N 15 W 40	N 17 W 55	N 54 E 24	N 32 E 24	N 15 E 33	N 77 E 19
5	N 61 E 28	N 15 W 53	N 33 W 75	N 42 E 25	S 41 E 30	N 31 W 46	N 13 W 39	N 26 W 63	N 70 E 27	N 65 W 19	N 13 W 46	N 57 E 31
10	N 40 E 24	N 26 W 55	N 40 W 81	N 48 E 31	S 40 E 33	N 28 W 44	N 13 W 45	N 23 W 72	N 76 E 28	N 53 W 35	N 39 W 52	N 30 E 20
15	N 50 E 27	N 06 W 52	N 26 W 78	N 65 E 22	S 34 E 38	N 25 W 43	N 38 W 50	N 34 W 74	S 63 E 23	N 32 W 37	N 45 W 52	N 33 E 20
20	N 46 E 30	N 22 W 50	N 30 W 61	N 71 E 19	S 29 E 37	N 45 W 46	N 15 W 42	N 30 W 70	S 78 E 25	N 28 W 33	N 45 W 48	N 30 E 20
25	N 62 E 30	N 18 W 51	N 28 W 45	S 26 E 16	S 26 E 40	N 45 W 41	N 11 W 47	N 05 E 58	S 74 E 21	N 06 W 36	N 39 W 45	N 18 E 27
27½	N 53 E 34	N 44	N 35 W 48	S 55 E 20	S 23 E 41	N 30 W 43	N 17 W 46	N 04 W 57	S 76 E 24	N 06 W 34	N 32 W 43	N 03 E 27
30	N 52 E 28	N 09 W 43	N 24 W 44	S 48 E 20	S 41 E 43	N 36 W 38	N 17 W 45	N 05 E 48	E 25	N 04 W 33	N 42 W 37	N 08 E 25
	20 3^{39} a	20 7^{46} a	20 11^{48} a	20 3^{41} p	20 7^{48} p	20 11^{44} p	29 3^{41} a	29 7^{49} a	29 11^{44} a	29 3^{49} p	29 7^{12} p	29 11^{39} p
2½	N 67 E 40	N 42 E 21	N 33 W 70	N 08 W 25	N 17 E 46	N 25 W 44	N 14 E 19	N 33 W 67	N 05 W 19	N 84 E 25	N 26 W 67	N 34 E 24
5	N 24 E 32	N 24 W 34	N 28 W 69	N 03 W 50	N 08 E 45	N 24 W 50	N 49 W 25	N 34 W 66	N 05 W 19	N 64 E 37	N 25 W 73	N 09 E 29
10	N 38 E 27	N 16 E 26	N 38 W 55	N 32 W 51	N 09 W 51	N 28 W 57	N 53 W 25	N 34 W 64	N 03 W 20	N 48 E 27	N 24 W 71	N 18 E 33
15	N 16 E 32	N 83 E 24	N 40 W 43	N 36 W 52	N 04 E 49	N 23 W 65	N 09 W 28	N 24 W 62	N 34 E 22	S 62 W 6	N 29 W 74	N 14 E 33
20	N 01 W 35	S 46 W 23	N 26 W 53	N 34 W 53	N 40 E 34	N 26 W 69	N 20 W 30	N 21 W 50	N 61 E 25	N 24 W 15	N 21 W 73	N 06 W 28
25	N 11 W 32	N 84 E 24	N 36 W 62	N 36 W 48	N 36 E 26	N 21 W 72	N 17 W 24	N 20 W 45	S 71 E 27	N 66 E 7	N 26 W 63	N 08 W 31
27½	N 10 W 20	S 68 E 25	N 32 W 66	N 35 W 44	N 49 E 26	N 10 W 75	N 25 E 27	N 19 W 41	S 55 E 30	S 53 E 14	N 25 W 55	N 13 E 24
30	N 07 W 24	N 74 E 20	N 30 W 60	N 30 W 41	N 55 E 17	N 12 W 70	N 32 E 21	N 20 W 41	S 39 E 31	S 64 E 20	N 28 W 49	N 10 E 24
	21 3^{39} a	21 7^{44} a	21 11^{44} a	21 3^{48} p	21 7^{41} p	21 11^{48} p	30 3^{44} a	30 7^{46} a	30 11^{45} a	30 3^{46} p	30 7^{19} p	30 11^{48} p
2½	N 09 W 70	N 01 W 33	N 23 W 70	N 38 W 59	N 87 E 25	N 06 W 36	N 49 E 27	N 32 W 73	N 16 W 23	N 33 W 33	N 02 E 48	N 13 W 40
5	N 21 W 79	N 08 W 46	N 24 W 75	N 43 W 79	N 47 E 15	N 41 W 59	N 14 E 40	N 39 W 74	N 33 W 42	N 30 W 37	N 04 E 58	N 10 W 44
10	N 31 W 80	N 10 W 37	N 20 W 76	N 37 W 76	S 23 E 21	N 16 W 68	N 06 W 40	N 33 W 81	N 32 W 47	N 27 W 38	N 24 W 74	N 10 W 44
15	N 26 W 73	N 17	N 29 W 69	N 34 W 62	S 34 E 28	N 36 W 44	N 10 W 46	N 26 W 78	N 30 W 61	N 50 W 45	N 36 W 63	N 13 W 37
20	N 24 W 59	N 54 E 14	N 28 W 62	N 51 W 25	S 40 E 31	N 15 W 30	N 12 W 46	N 30 W 78	N 30 W 59	N 72 W 28	N 26 W 60	N 30 W 30
25	N 14 W 46	S 05 E 10	N 10 W 47	N 22 W 24	S 35 E 30	N 43 E 33	N 23 W 42	N 36 W 77	N 22 W 53	N 66 W 29	N 40 W 56	N 27 W 26
27½	N 11 W 46	S 82 E 12	N 15 W 36	N 34 W 18	S 48 E 32	N 23 E 14	N 20 W 47	N 46 W 71	N 31 W 48	N 49 W 28	N 37 W 55	N 35 W 18
30	N 16 W 33	S 78 E 18	N 14 W 34	S 78 W 4	S 70 E 35	N 44 E 16	N 24 W 44	N 38 W 73	N 34 W 47	N 43 W 32	N 36 W 47	N 40 W 19
	22 3^{44} a	22 7^{38} a	22 11^{42} a	22 3^{46} p	22 7^{42} p	22 11^{41} p	31 3^{38} a	31 7^{45} a	31 11^{40} a	31 3^{49} p	31 7^{41} p	31 11^{49} p
2½	N 05 W 40	S 58 E 46	N 07 E 25	N 05 W 37	N 84 E 30	N 62 E 19	N 72 E 20	N 08 W 53	N 09 E 34	S 75 E 36	N 15 W 40	N 12 E 40
5	N 12 W 49	S 65 E 42	N 08 W 42	N 22 W 50	N 84 E 31	N 15 E 25	N 16 E 19	N 23 W 58	N 28 W 50	S 63 E 48	N 20 W 45	N 28 W 53
10	N 15 W 50	S 52 E 38	N 04 W 48	N 26 W 51	S 88 E 34	N 42 W 23	N 37 E 18	N 23 W 63	N 18 W 51	S 72 E 46	N 27 W 37	N 22 W 50
15	N 17 W 52	S 59 E 37	N 30 W 44	N 34 W 52	S 75 E 34	N 03 W 28	S 39 W 4	N 22 W 64	N 34 W 52	S 40 E 46	N 18 W 47	N 28 W 46
20	N 12 W 51	S 52 E 36	N 20 W 36	N 44 W 50	S 80 E 33	N 26 W 25	S 86 E 15	N 20 W 61	N 43 W 53	S 30 E 56	N 10 W 37	N 35 W 51
25	N 05 E 48	S 42 E 30	N 20 W 30	N 51 W 46	S 78 E 31	N 30 W 26	S 49 E 19	N 22 W 59	N 36 W 48	S 36 E 54	N 01 W 41	N 28 W 38
27½	N 04 W 44	S 50 E 31	N 20 W 21	N 40 W 42	S 79 E 32	N 25 W 28	S 24 E 19	N 21 W 60	N 50 W 47	S 64 E 42	N 48 W 47	N 46 W 49
30	N 10 W 44	S 58 E 34	N 27 W 27	N 43 W 42	S 83 E 32	N 18 W 33	S 64 E 9	N 24 W 56	N 40 W 44	S 08 W 32	N 34 W 43	N 52 W 48
	23 3^{48} a	23 7^{44} a	23 11^{49} a	23 3^{42} p	23 7^{40} p	23 11^{42} p	1 3^{39} a	1 7^{39} a	1 11^{40} a	1 3^{45} p	1 7^{40} p	1 11^{41} p
2½	N 28 W 70	N 83 E 16	N 07 E 21	N 33 W 55	N 41 E 16	N 25 E 14	S 86 E 13	N 22 E 33	N 26 W 57	S 31 E 25	N 02 E 30	N 19 E 48
5	N 35 W 69	N 86 E 19	N 21 W 34	N 30 W 58	N 87 E 20	N 09 W 11	S 74 E 16	N 03 W 39	N 25 W 79	S 53 E 25	N 02 E 33	N 29 W 53
10	N 45 W 66	S 82 E 18	N 32 W 31	N 34 W 63	N 67 E 21	N 22 W 19	S 49 E 18	N 22 W 45	N 36 W 72	S 67 E 20	N 37 W 36	N 21 W 50
15	N 40 W 70	S 86 E 21	N 35 W 38	N 36 W 65	N 62 E 24	N 36 W 20	N 60 W 3	N 35 W 44	N 36 W 74	N 49 W 4	N 48 W 38	N 25 W 46
20	N 17 W 61	S 89 E 23	N 22 W 30	N 32 W 68	N 72 E 23	N 43 W 22	N 60 W 3	N 18 W 49	N 39 W 75	S 71 W 17	N 28 W 43	N 44 W 47
25	N 25 W 48	S 83 E 25	N 23 W 29	N 34 W 69	S 58 E 25	N 34 W 21	N 62 W 9	N 18 W 47	N 38 W 70	N 76 W 17	N 49 W 38	N 40 W 48
27½	N 22 W 59	E 24	N 24 W 31	N 34 W 63	S 50 E 23	N 55 W 16	N 56 W 13	N 35 W 49	N 44 W 71	N 62 W 22	N 39 W 38	N 50 W 45
30	N 33 W 47	S 73 E 21	N 28 W 29	N 32 W 60	S 23 E 20	N 09 W 20	N 62 W 15	N 34 W 45	N 50 W 64	N 51 W 26	N 40 W 34	N 40 W 42
	24 3^{41} a	24 7^{48} a	24 11^{43} a	24 3^{58} p	24 7^{49} p	24 11^{40} p	2 3^{49} a	2 7^{44} a	2 11^{42} a	2 3^{40} p	2 7^{39} p	2 [illegible]
2½	N 07 E 53	N 62 E 24	N 29 E 14	N 70	N 41 E 21	N 82 E 40	N 87 E 30	N 21 W 19	N 46	S 83 E 14	S 53 E 25	N [illegible] W [illegible]
5	N 49 W 50	N 49 E 23	N 28 E 20	N 34 W 79	N 44 E 26	N 50 E 39	N 40 E 23	N 18 W 21	N 26 W 50	S 78 E 20	S 18 E 25	N [illegible] W [illegible]
10	N 37 W 50	N 14 E 18	N 31 E 13	N 50 W 76	N 44 E 28	N 46 E 36	S 51 E 23	N 29 W 25	N 34 W 50	S 76 E 33	S 12 W 21	N [illegible] W [illegible]
15	N 40 W 51	N 20 E 22	N 06 E 18	N 20 W 62	N 48 E 31	N 26 E 30	S 53 E 24	N 16 W 28	N 39 W 49	S 66 E 32	S 04 W 23	N [illegible] W [illegible]
20	N 34 W 49	N 14 E 20	N 08 W 14	N 43 W 54	N 28 E 26	N 04 W 22	S 59 E 27	N 12 W 32	N 32 W 51	S 52 E 25	S 26 E 23	N [illegible] W [illegible]
25	N 48 W 49	N 13 E 16	N 04 W 20	N 30 W 73	N 10 E 26	N 13 E 30	S 86 E 14	N 05 W 26	N 43 W 50	S 20 E 20	S 15 W 12	N [illegible] W [illegible]
27½	N 34 W 44	N 20 E 15	N 15 W 20	N 39 W 57	N 08 W 24	N 12 E 28	N 74 W 7	N 01 E 23	N 37 W 50	S 11 W 17	N 83 E 10	N [illegible] W [illegible]
30	N 36 W 41	N 64 E 15	N 10 W 24	N 32 W 56	N 26 W 21	N 29	N 74 W 7	N 23 E 21	N 37 W 50	S 44 W 19	N 12 W 6	N [illegible] W [illegible]
	25 3^{44} a	25 7^{46} a	25 11^{48} a	25 3^{39} p	25 7^{48} p	25 11^{42} p	3 3^{49} a	3 7^{49} a	3 11^{39} a	3 3^{45} p	3 7^{38} p	3 [illegible] p
2½	N 02 E 48	N 55 E 50	N 82 E 67	N 48 W 23	0	S 63 E 31	N 03 E 29	S 41 E 36	N 03 E 30	N 08 W 33	S 65 E 32	N [illegible] W [illegible]
5	N 11 W 59	N 12 W 50	N 88 E 57	N 08 W 36	N 15 E 24	S 70 E 36	S 25 E 30	S 21 E 48	N 09 W 25	S 13 E 33	S 55 E 36	N 03 W 52
10	N 24 W 70	N 01 E 50	S 87 E 56	N 19 W 49	N 19 E 20	S 50 E 38	S 55 E 29	S 80 E 52	N 16 W 39	N 08 W 25	S 74 E 47	N 16 W 44
15	N 20 W 64	N 12 E 46	S 69 E 55	N 40 W 50	N 74 W 30	S 58 E 45	S 43 E 28	S 70 E 45	N 21 W 51	S 10 E 33	S 77 E 53	N 14 W 45
20	N 26 W 67	N 35 W 42	S 70 E 48	N 28 W 48	N 36 W 33	S 68 E 44	S 49 E 30	S 50 E 44	N 18 W 43	N 20 W 2	S 08 E 57	N 14 W 37
25	N 24 W 64	N 17 W 36	N 74 E 39	N 48 W 49	N 33 W 26	S 76 E 34	S 48 E 30	S 43 E 35	N 28 W 44	N 34 W 17	S 08 E 66	N 10 W 33
27½	N 24 W 58	N 34 W 42	S 82 E 38	N 40 W 48	N 45 W 20	S 71 E 31	S 26 W 26	S 49 E 30	N 36 W 45	S 30 W 33	S 25 E 49	N [illegible] W [illegible]
30	N 24 W 64	N 38 W 46	N 65 E 38	N 34 W 49	S 60 W 23	N 64 E 24	S 23 W 23	S 53 E 30	N 17 W 46	S 34 W 39	S 46 E 34	N 18 W 38

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	**4** 3^{44} a	**4** 7^{47} a	**4** 11^{48} a	**4** 3^{42} p	**4** 7^{48} p	**4** 11^{39} p	**13** 3^{48} a	**13** 7^{48} a	**13** 11^{40} a	**13** 3^{48} p	**13** 7^{38} p	**13** 11^{40} p
2½	N 10 W 36	N 87 E 25	N 31 W 59	N 36 W 40	N 74 E 36	N 16	N 63 W 40	N 19 W 76	N 23 W 33	N 23 W 25	N 16 W 58	N 33 W 33
5	N 02 E 46	N 59 E 34	N 14 W 69	N 22 W 53	S 64 E 44	W 16	N 47 W 46	N 18 W 74	N 40 E 29	N 13 W 33	N 06 W 70	N 23 W 32
10	N 10 W 51	N 35 E 42	N 20 W 67	N 54 W 51	S 88 E 47	N 18 W 18	N 37 W 48	N 12 W 81	N 40 E 33	N 38	N 22 W 68	S 15 E 27
15	N 20 W 46	N 14 E 35	N 15 W 75	N 49 W 52	S 01 E 47	N 03 E 18	N 30 W 49	N 33 W 78	N 44 E 35	N 07 W 37	N 44 W 63	S 52 E 26
20	N 25 W 45	S 23 E 33	N 36 W 72	N 49 W 49	S 33 E 45	N 84 W 18	N 34 W 48	N 23 W 75	S 78 E 30	N 26 W 44	N 30 W 50	N 39 E 21
25	N 39 W 35	S 76 E 30	N 19 W 69	N 44 W 48	S 30 E 44	N 18 W 17	N 37 W 48	N 34 W 73	S 79 E 26	N 06 E 35	N 23 W 56	N 83 E 15
27½	N 40 W 33	S 76 E 30	N 25 W 68	N 52 W 48	S 41 E 32	N 20 W 20	N 36 W 49	N 16 W 67	S 64 E 31	N 11 W 34	N 20 W 58	N 58 E 21
30	N 70 W 35	S 75 E 30	N 35 W 67	N 46 W 48	S 01 W 45	N 56 W 26	N 26 W 49	N 35 W 63	S 50 E 36	N 24 W 26	N 19 W 58	N 39 E 24
	5 3^{38} a	**5** 7^{44} a	**5** 11^{47} a	**5** 3^{48} p	**5** 7^{48} p	**5** 11^{48} p	**14** 3^{40} a	**14** 7^{47} a	**14** 11^{49} a	**14** 3^{49} p	**14** 7^{49} p	**14** 11^{41} p
2½	N 13 W 29	S 56 E 40	N 33 E 59	N 08 W 76	N 21 E 40	N 02 E 46	N 24 E 20	N 38 W 76	N 21 W 40	S 03 W 33	N 38 W 53	N 33 W 25
5	N 29 W 39	S 55 E 45	N 28 W 55	N 08 W 65	N 16 E 32	N 34 W 46	N 08 W 33	N 09 W 74	N 13 W 32	S 20 W 32	N 38 W 45	N 43 W 25
10	N 29 W 45	S 58 E 41	N 17 W 57	N 37 W 73	S 35 E 30	N 12 W 37	N 08 W 33	N 23 W 74	N 05 W 31	S 20 W 30	N 44	N 36 W 24
15	N 44 W 30	S 58 E 35	N 13 W 55	N 40 W 70	N 60 E 31	N 11 W 44	N 09 E 32	N 17 W 73	N 13 W 22	S 07 W 35	N 20 W 40	S 17 W 41
20	N 29 W 28	S 49 E 39	N 03 W 65	N 37 W 68	N 84 E 27	N 24 W 35	N 04 E 29	N 14 W 67	N 19 W 21	S 34	N 19 W 42	N 15 E 33
25	N 45 W 33	S 46 E 36	N 06 W 58	N 34 W 65	N 79 E 26	N 24 W 34	N 23 E 22	N 12 W 64	N 12 E 21	S 07 W 43	N 18 W 33	S 48 E 27
27½	N 51 W 35	S 40 E 34	N 17 W 51	N 39 W 66	S 51 W 8	N 54 W 42	N 16 W 31	N 20 W 60	N 47 E 19	S 55 E 37	N 29 W 33	S 65 E 26
30	N 66 W 31	S 24 E 32	N 14 W 50	N 22 W 64	S 51 W 8	N 23 W 32	N 14 W 26	N 13 W 59	N 70 E 20	S 56 E 37	N 22 W 32	S 30 E 29
	6 3^{38} a	**6** 7^{38} a	**6** 11^{45} a	**6** 3^{48} p	**6** 7^{44} p	**6** 11^{47} p	**15** 3^{38} a	**15** 7^{45} a	**15** 11^{46} a	**15** 3^{40} p	**15** 7^{49} p	**15** 11^{49} p
2½	N 06 W 48	N 44 E 33	N 14 E 25	N 31 W 29	N 83 E 20	S 63 E 25	S 33 E 40	N 23 W 76	N 49 W 46	S 78 E 37	N 23 W 80	N 33 W 53
5	N 15 W 58	N 33 E 39	N 06 W 29	N 61 W 29	S 86 E 24	S 42 E 29	S 17 E 46	N 40 W 67	N 47 W 45	S 47 E 43	N 25 W 85	N 33 W 52
10	N 42 W 65	N 47 E 23	N 03 E 30	N 60 W 45	S 82 E 26	S 42 E 32	S 02 E 44	N 38 W 69	N 58 W 43	S 11 E 46	N 31 W 81	N 10 W 50
15	N 16 W 63	N 72 E 26	N 04 W 31	N 54 W 46	S 86 E 30	S 43 E 38	S 24 E 43	N 32 W 72	N 31 W 43	S 26 E 46	N 34 W 80	N 13 W 52
20	N 13 W 70	N 65 E 30	N 09 W 21	N 50 W 44	S 85 E 26	S 10 E 37	S 10 E 34	N 36 W 67	N 37 W 42	S 10 E 48	N 34 W 77	N 11 W 50
25	N 26 W 64	N 47 E 39	N 16 W 18	N 46 W 42	S 82 E 25	S 38 E 33	S 02 E 34	N 38 W 69	N 30 W 36	S 28 E 42	N 35 W 72	N 36 W 49
27½	N 38 W 52	N 04 E 18	N 40 W 25	N 50 W 41	S 70 E 29	S 34 E 29	S 13 W 36	N 32 W 66	N 29 W 25	S 34 E 44	N 10 W 69	N 25 W 39
30	N 47 W 57	S 49 W 10	N 37 W 30	N 46 W 40	S 52 E 30	S 49 E 13	S 10 W 25	N 31 W 61	N 32 W 24	S 34 E 40	N 23 W 67	N 09 W 39
	7 3^{48} a	**7** 7^{44} a	**7** 11^{48} a	**7** 3^{48} p	**7** 7^{38} p	**7** 11^{45} p	**16** 3^{38} a	**16** 7^{35} a	**16** 11^{49} a	**16** 3^{47} p	**16** 7^{44} p	**16** 11^{49} p
2½	N 41 W 40	S 65 E 11	N 86 E 33	N 11 W 40	N 27 E 33	N 70 E 33	N 65 E 25	N 23 W 67	N 38 W 46	N 38 W 25	N 20 W 74	N 16 W 46
5	N 20 W 39	N 74 E 19	S 70 E 32	N 08 W 50	N 18 E 32	N 83 E 35	N 11 E 33	N 18 W 75	N 33 W 45	N 42 W 25	N 22 W 84	N 18 W 48
10	N 46 W 42	N 56 E 19	S 70 E 31	N 19 W 52	N 26 E 23	S 47 E 36	N 05 W 32	N 12 W 73	N 10 W 37	S 70 W 29	N 21 W 75	N 20 W 50
15	N 38 W 44	S 62 E 18	S 53 E 31	N 30 W 49	N 15 E 12	S 76 E 36	N 04 E 31	N 13 W 64	N 28 W 39	S 18 E 32	N 22 W 64	N 23 W 51
20	N 30 W 43	S 86 W 3	S 46 E 29	N 23 W 47	N 22 E 12	E 32	N 05 E 33	N 22 W 67	N 24 W 43	S 20 E 31	N 23 W 49	N 20 W 50
25	N 39 W 41	S 39 W 12	S 42 E 29	N 24 W 43	S 26 W 6	S 58 E 25	N 03 E 32	N 26 W 65	N 32 W 38	S 25 E 32	N 55 W 32	N 22 W 44
27½	N 29 W 40	S 21 E 10	S 24 E 34	N 24 W 43	N 04 W 7	S 11 E 16	N 18 W 26	N 14 W 64	N 21 W 37	S 76 E 36	N 60 W 24	N 24 W 42
30	N 46 W 33	S 28 E 10	S 40 E 33	N 30 W 43	S 26 W 6	S 16 W 14	N 10 W 25	N 11 W 68	N 41 W 33	S 76 E 36	N 23 W 46	N 26 W 35
	8 3^{48} a	**8** 7^{52} a	**8** 11^{40} a	**8** 3^{48} p	**8** 7^{39} p	**8** 11^{38} p	**17** 3^{49} a	**17** 7^{49} a	**17** 11^{47} a	**17** 3^{50} p	**17** 7^{39} p	**17** 11^{44} p
2½	N 24 W 46	N 12 E 24	N 17 E 40	N 08 W 46	N 07 E 16	S 53 E 40	N 18 W 33	N 35 W 85	N 26 W 33	S 59 W 16	N 63 W 25	N 60 W 30
5	N 25 W 52	N 07 E 21	N 16 E 43	N 28 W 52	N 45 W 21	S 37 E 46	N 18 W 25	N 24 W 65	N 19 W 46	S 26 W 19	N 47 W 29	N 57 W 34
10	N 26 W 48	S 55 W 25	N 25 E 49	N 12 W 50	N 31 W 24	S 32 E 48	N 12 W 14	N 17 W 81	N 35 W 51	S 01 E 20	N 31 W 31	N 57 W 34
15	N 36 W 46	S 64 W 19	N 06 E 45	N 23 W 48	N 44 W 24	S 18 E 43	N 37 E 24	N 11 W 69	N 25 W 49	S 02 E 21	N 42 W 31	N 56 W 42
20	N 30 W 50	S 80 W 14	N 07 E 48	N 35 W 40	N 57 W 29	S 10 E 48	N 64 E 24	N 17 W 66	N 21 W 47	S 13 E 25	N 19 W 22	N 48 W 44
25	N 36 W 45	S 68 W 13	N 29 W 50	N 33 W 38	N 75 W 26	S 10 E 46	N 50 E 20	N 10 W 64	N 21 W 42	S 07 E 27	N 13 W 18	N 35 W 45
27½	N 50 W 45	N 71 E 16	N 40 W 50	N 34 W 45	N 78 W 22	S 10 E 48	N 64 E 20	N 12 W 64	N 20 W 38	S 09 E 31	N 31 E 13	N 44 W 47
30	N 46 W 49	S 79 E 4	N 49 W 47	N 56 W 38	N 59 W 25	S 16 E 45	N 73 E 20	N 14 W 60	N 33 W 35	S 04 W 26	N 10 E 14	N 54 W 49
	9 3^{44} a	**9** 7^{47} a	**9** 11^{48} a	**9** 3^{48} p	**9** 7^{48} p	**9** 11^{40} p	**18** 3^{49} a	**18** 7^{49} a	**18** 11^{44} a	**18** 3^{44} p	**18** 7^{38} p	**18** 11^{40} p
2½	N 38 W 42	N 51 W 43	S 43 E 48	N 28 W 25	N 58 W 46	S 04 E 48	S 21 W 24	N 33 W 25	N 34 W 67	0	S 38 E 7	N 45 W 80
5	N 13 W 63	S 71 W 39	S 13 E 58	N 79 W 33	W 46	S 13 E 47	S 69 W 20	N 43 W 25	N 38 W 66	0	S 39 E 11	N 45 W 63
10	N 23 W 68	N 68 W 34	S 04 E 57	S 69 E 4	N 24 W 52	N 70 E 53	S 20 E 20	N 34 W 26	N 40 W 55	S 26 E 11	S 11 E 16	N 38 W 45
15	N 34 W 56	N 74 W 30	S 29 E 64	N 45 W 24	N 52 W 49	S 74 E 46	S 50 E 22	N 44 W 23	N 36 W 54	S 18 E 14	S 11 E 15	N 39 W 33
20	N 22 W 48	S 60 W 33	S 08 E 62	N 67 W 23	N 58 W 48	S 08 W 57	S 40 E 22	N 35 W 22	N 34 W 47	S 05 W 15	S 13 E 15	N 39 W 24
25	N 34 W 52	N 72 W 29	S 18 E 49	S 80 W 27	N 40 W 49	S 15 E 55	S 41 E 22	N 02 W 31	N 19 W 39	S 03 W 15	S 13 E 14	N 38 W 19
27½	N 36 W 39	N 40 W 30	S 23 E 49	N 27 W 23	N 37 W 45	S 20 E 47	N 64 W 25	N 03 E 31	N 34 W 37	S 22 E 13	S 12 E 13	N 38 W 14
30	N 26 W 43	N 74 W 23	S 15 E 58	N 43 W 30	N 27 W 45	S 38 E 46	N 89 W 30	N 10 E 32	N 33 W 37	S 24 E 13	S 12 E 14	N 36 W 9
	10 3^{38} a	**10** 7^{44} a	**10** 11^{49} a	**10** 3^{40} p	**10** 7^{49} p	**10** 11^{49} p	**19** 3^{44} a	**19** 7^{49} a	**19** 11^{44} a	**19** 3^{49} p	**19** 7^{49} p	**19** 11^{38} p
2½	N 33 W 46	N 33 W 40	S 29 W 48	N 88 W 25	N 49 W 25	S 33 E 48	N 18 W 19	S 38 E 16	N 41 W 68	N 18 W 80	0	N 21 W 40
5	N 33 W 52	N 24 W 46	S 31 E 76	S 86 W 37	N 42 W 40	S 35 E 58	N 09 W 16	S 49 E 22	N 23 W 58	N 07 W 57	N 64 E 11	N 18 W 46
10	N 26 W 50	N 46 W 44	S 33 E 81	N 70 W 27	N 37 W 43	S 25 E 57	S 15 E 2	S 45 E 25	N 27 W 47	N 08 E 28	S 74 E 19	N 20 W 47
15	N 36 W 49	N 41 W 41	S 28 E 70	S 49 E 27	N 67 W 25	S 44 E 57	S 15 E 2	S 46 E 25	N 29 W 39	N 05 E 27	S 70 E 18	N 28 W 43
20	N 36 W 40	N 44 W 44	S 30 E 76	S 52 E 33	S 35 E 29	S 32 E 62	S 17 E 8	S 48 E 21	N 26 W 38	N 06 E 26	S 76 E 20	N 19 W 37
25	N 40 W 31	N 58 W 46	S 37 E 74	S 59 E 37	S 41 E 36	S 51 E 60	S 16 E 12	S 57 E 20	N 28 W 30	N 07 W 25	S 41 E 17	N 19 W 33
27½	N 35 W 42	N 60 W 44	S 26 E 72	S 56 E 38	S 35 E 35	S 39 E 59	S 13 E 15	N 85 E 19	N 14 W 24	N 05 W 22	S 56 E 8	N 20 W 29
30	N 26 W 39	N 63 W 44	S 34 E 71	S 46 E 45	S 23 E 34	S 39 E 58	S 16 E 19	N 70 E 19	N 19 W 24	S 06 E 14	S 06 E 10	N 16 W 29
	11 3^{39} a	**11** 7^{40} a	**11** 11^{43} a	**11** 3^{47} p	**11** 7^{40} p	**11** 11^{49} p	**20** 3^{35} a	**20** 7^{44} a	**20** 11^{49} a	**20** 3^{44} p	**20** 7^{47} p	**20** 11^{39} p
2½	N 55 W 25	N 33 W 46	S 56 E 25	S 81 W 29	N 53 W 46	S 78 E 48	N 21 W 40	S 41 E 19	N 38 W 70	N 37 W 50	N 03 W 25	N 27 W 67
5	N 38 W 33	N 33 W 52	S 12 E 46	S 06 W 40	N 37 W 52	S 23 E 76	N 23 W 47	S 44 E 21	N 16 W 58	N 40 W 52	S 67 E 40	N 19 W 66
10	N 20 W 31	N 33 W 48	S 39 E 39	S 25 W 38	N 75 W 52	S 16 E 81	N 11 W 35	S 58 E 15	N 28 W 56	N 53 W 53	N 30 E 32	N 19 W 64
15	N 41 W 45	N 21 W 43	S 17 E 36	S 55 W 35	N 46 W 46	S 05 E 83	N 12 W 31	S 53 E 13	N 27 W 72	N 62 W 48	S 89 E 31	N 16 W 71
20	N 58 W 37	N 21 W 41	S 16 E 42	N 08 E 43	N 61 W 47	S 20 E 78	N 29 W 26	S 40 E 17	N 10 W 56	N 46 W 44	N 37 E 26	N 04 W 59
25	N 37 W 32	N 16 W 43	S 17 E 45	S 08 E 27	N 65 W 40	S 30 E 74	N 60 W 24	S 45 E 23	N 06 W 61	N 50 W 35	S 53 E 38	N 05 W 55
27½	N 43 W 30	N 18 W 39	S 35 E 48	N 31 E 24	N 58 W 38	S 17 E 72	N 60 W 20	S 36 E 31	N 05 E 38	N 47 W 30	S 39 E 29	N 21 W 54
30	N 24 W 28	N 21 W 38	S 47 E 42	S 33 E 20	N 70 W 29	S 20 E 69	N 68 W 14	S 55 E 27	N 11 W 24	N 51 W 23	S 36 E 22	N 18 W 53
	12 3^{49} a	**12** 7^{44} a	**12** 11^{39} a	**12** 3^{14} p	**12** 7^{38} p	**12** 11^{45} p	**21** 3^{39} a	**21** 7^{45} a	**21** 11^{44} a	**21** 3^{45} p	**21** 7^{44} p	**21** 11^{49} p
2½	S 53 E 36	N 64 W 33	S 13 E 58	S 57 W 34	N 33 W 40	N 23 W 40	N 30 W 76	N 83 W 19	N 51 W 31	N 51 W 70	N 35 W 19	N 48 W 33
5	S 13 E 48	N 46 E 30	S 28 E 66	S 42 W 46	N 33 W 46	S 75 E 33	N 27 W 66	S 87 E 20	N 56 W 31	N 51 W 84	N 31 W 19	N 73 W 46
10	S 31 W 47	N 44 W 32	S 26 E 73	S 45 W 42	N 27 W 44	S 84 E 28	N 25 W 64	N 34 W 13	N 43 W 36	N 43 W 80	N 33 W 15	N 78 W 51
15	S 14 E 68	N 61 W 23	S 28 E 74	S 26 W 50	N 47 W 43	S 74 E 33	N 28 W 65	N 36 W 19	N 36 W 43	N 38 W 73	N 37 W 13	N 73 W 49
20	S 14 E 43	N 64 W 23	S 26 E 77	S 01 W 41	N 38 W 48	S 86 E 34	N 24 W 69	N 38 W 20	N 33 W 46	N 16 W 71	N 58 W 6	N 64 W 50
25	S 35 E 54	N 31 W 22	S 40 E 74	S 45 E 48	N 33 W 44	S 77 E 37	N 28 W 63	N 21 W 20	N 52 W 48	N 16 W 69	S 30 E 4	N 64 W 45
27½	S 26 E 53	N 39 W 22	S 37 E 64	S 25 E 50	N 39 W 29	S 32 E 49	N 38 W 46	N 21 W 16	N 47 W 50	N 12 W 68	S 30 E 4	N 60 W 45
30	S 43 E 53	N 68 W 19	S 34 E 68	S 60 E 51	N 74 W 16	S 35 E 46	N 16 W 46	N 02 E 14	N 46 W 50	N 10 W 67	N 32 W 6	N 64 W 46

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

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Meter	22 3⁴⁰ a	22 7³⁹ a	22 11⁴⁰ a	22 3⁴⁶ p	22 7⁴⁴ p	22 11⁴⁹ p	31 3⁵⁰ a	31 7⁵⁹ a	31 11³⁹ a	31 3⁴⁹ p	31 7⁴⁹ p	31 11⁴⁰ p
2½	N 59 W 76	S 47 W 33	S 25 W 43	N 87 W 59	S 21 E 30	S 59 E 33	N 20 W 30	N 03 W 73	N 35 E 48	N 82 E 25	N 45 E 48	N 07 E 48
5	N 58 W 74	S 30 W 39	S 23 W 47	N 69 W 54	S 80 E 30	S 60 E 46	N 23 W 34	N 05 W 31	N 42 W 67	S 20 E 25	N 14 W 52	N 26 W 66
10	N 40 W 72	S 16 W 31	S 18 W 48	N 56 W 53	S 70 E 36	S 54 E 56	N 20 W 23	N 17 W 46	N 36 W 64	N 24 E 33	N 09 W 57	N 43 W 64
15	N 41 W 75	S 17 W 22	S 04 E 47	N 11 W 46	S 60 E 37	S 48 E 53	S 26 E 6	N 25 W 56	N 53 W 66	N 02 E 33	N 10 W 64	N 22 W 72
20	N 43 W 75	S 04 E 37	S 25 E 49	N 14 W 40	S 56 E 38	S 16 E 43	S 26 E 6	N 13 W 63	N 45 W 60	N 60 W 31	N 16 W 63	N 50 W 75
25	N 25 W 64	S 16 E 44	S 30 E 47	N 14 W 34	S 44 E 36	S 47 E 39	S 59 W 11	N 08 W 61	N 33 W 58	N 34 W 24	N 33 W 61	N 32 W 79
27½	N 16 W 48	S 49 E 44	S 36 E 46	N 15 W 22	S 34 E 36	E 33	S 37 W 26	N 14 W 53	N 33 W 66	N 40 W 24	N 10 W 63	N 16 W 78
30	N 25 W 42	S 55 E 44	S 52 E 44	N 16 W 22	S 28 E 33	N 89 E 33	S 64 W 31	N 06 E 59	N 18 W 66	N 43 W 23	N 24 W 62	N 27 W 73
	23 3⁴⁹ a	**23** 7⁴¹ a	**23** 11⁴⁹ a	**23** 3⁴² p	**23** 7⁴⁹ p	**23** 11³⁸ p	**1** 3³⁹ a	**1** 7⁴⁴ a	**1** 11⁴⁹ a		**1** 7⁴⁹ p	**1** 11⁴⁹ p
2½	N 35 W 48	N 13 W 19	S 77 E 33	N 33 W 33	N 18 W 53	N 05 E 21	N 07 E 29	N 33 W 33	N 21 W 48		S 73 E 25	N 41 W 33
5	N 44 W 44	N 01 W 19	S 83 E 39	N 03 W 33	N 16 W 56	N 06 W 32	N 05 W 40	N 25 W 36	N 28 W 58		S 54 E 27	N 41 W 46
10	N 54 W 35	N 54 E 18	S 87 E 45	N 36 W 39	N 18 W 54	N 72 E 29	N 07 W 45	N 24 W 37	N 41 W 68		S 26 E 26	N 31 W 30
15	N 54 W 34	S 63 E 24	E 44	N 70 W 36	N 17 W 53	N 12 E 31	N 11 W 44	N 24 W 36	N 40 W 71		S 03 W 32	N 50 W 30
20	N 43 W 33	S 48 E 27	N 88 E 42	N 35 W 27	N 04 E 46	N 45 E 31	N 20 W 43	N 30 W 36	N 43 W 71		S 25 W 27	N 65 W 44
25	N 18 W 28	S 10 E 23	S 80 E 41	N 31 W 21	S 01 E 49	N 21 W 22	N 14 W 42	N 24 W 35	N 41 W 71		S 40 W 27	N 57 W 28
27½	N 15 E 20	S 12 W 23	S 83 E 43	N 07 E 21	S 13 E 48	N 44 W 23	N 18 W 37	N 25 W 33	N 34 W 66		S 07 E 25	N 40 W 18
30	N 14 E 20	S 06 W 28	S 80 E 44	N 13 E 30	S 17 E 44	N 50 W 18	N 13 W 41	N 35 W 30	N 47 W 69		S 31 E 25	N 24 W 19
	24 3⁴⁶ a	**24** 7⁴⁹ a	**24** 11⁴⁴ a	**24** 3⁴⁹ p	**24** 7³⁸ p	**24** 11⁴⁵ p	**2** 3⁴⁰ a	**2** 7³⁸ a	**2** 11⁴⁴ a	**2** 3⁴² p	**2** 7⁴⁴ p	**2** 11⁴⁹ p
2½	N 23 W 92	N 38 W 58	N 60 E 19	N 25 E 48	N 10 W 40	N 72 E 25	N 33 W 24	S 21 E 40	0	N 22 E 40	N 15 E 13	N 13 W 37
5	N 27 W 90	N 18 W 58	N 74 E 21	N 18 W 53	N 13 W 44	E 19	N 35 W 36	S 11 E 39	0	N 06 W 39	N 18 E 16	N 24 W 44
10	N 21 W 86	N 19 W 65	N 46 E 18	N 18 W 53	N 23 W 47	E 24	N 20 W 33	S 12 E 42	N 67 W 7	N 18 W 52	N 04 E 18	N 34 W 51
15	N 22 W 82	N 17 W 59	N 32 E 17	N 18 W 48	N 26 W 33	N 83 E 26	S 54 W 10	S 19 E 44	N 52 W 16	N 20 W 41	N 44 E 15	N 32 W 52
20	N 16 W 79	N 10 W 61	N 40 E 20	N 24 W 46	N 11 W 35	N 84 E 26	S 01 W 20	S 12 E 49	N 56 W 6	N 34 W 39	N 72 E 20	N 38 W 53
25	N 10 W 73	N 22 W 49	N 40 E 21	N 23 W 45	N 56 W 24	N 89 E 25	S 11 E 20	S 21 E 47	S 60 E 2	N 36 W 34	N 86 E 21	N 36 W 52
27½	N 11 W 71	N 17 W 48	N 25 E 22	N 26 W 47	N 41 W 23	S 72 E 20	S 17 E 20	S 25 E 44	N 60 E 9	N 39 W 20	E 25	N 38 W 51
30	N 13 W 70	N 20 W 48	N 19 E 24	N 25 W 46	N 40 W 23	S 88 E 20	S 26 E 22	S 29 E 45	N 45 E 19	N 52 W 12	S 86 E 32	N 43 W 49
	25 3⁴⁸ a	**25** 7⁴⁹ a	**25** 11⁴⁴ a	**25** 3³⁸ p	**25** 7⁴⁹ p	**25** 11³⁹ p	**3** 3⁴⁹ a	**3** 7⁴⁴ a	**3** 11⁴⁹ a	**3** 3⁴² p	**3** 7³⁹ p	**3** 11³⁹ p
2½	N 25 W 44	N 17 W 59	S 33 E 32	N 73 W 25	N 73 W 58	S 38 E 29	N 33 W 34	S 04 W 16	N 43 E 21	N 14 E 40	S 63 E 33	N 39 E 33
5	N 24 W 47	N 28 W 79	S 22 E 33	S 77 W 33	N 75 W 58	S 57 E 46	N 29 W 55	S 48 E 20	N 68 E 33	N 06 W 53	S 73 E 32	N 12 E 53
10	N 23 W 50	N 31 W 76	S 44 E 39	N 11 W 29	N 67 W 58	S 65 E 45	N 28 W 57	S 21 E 19	N 86 E 43	N 35 W 51	N 65 E 24	N 06 E 37
15	N 21 W 52	N 34 W 73	S 21 E 32	N 57 W 23	N 56 W 55	S 60 E 50	N 31 W 64	S 72 E 24	N 64 E 48	N 41 W 43	N 48 E 23	N 01 E 36
20	N 21 W 51	N 32 W 66	S 33 E 28	N 51 W 27	N 45 W 48	S 40 E 42	N 30 W 58	S 53 E 24	N 43 E 43	N 30 W 48	N 65 E 27	N 02 E 43
25	N 18 W 48	N 47 W 51	S 39 E 28	N 26 W 46	N 33 W 40	S 30 E 41	N 36 W 57	S 61 E 23	N 60 E 38	N 38 W 44	N 31 E 12	N 23 W 42
27½	N 17 W 44	N 42 W 45	S 33 E 25	N 09 E 45	N 17 W 41	S 13 E 34	N 44 W 57	S 20 E 20	N 51 E 38	N 39 W 45	N 31 E 12	N 16 W 47
30	N 19 W 41	N 45 W 45	S 33 E 28	N 19 E 45	N 16 W 33	S 10 E 36	N 24 W 49	S 09 E 20	N 53 E 33	N 46 W 45	N 56 E 19	N 10 W 39
	26 3⁴⁰ a	**26** 7⁴⁴ a	**26** 11⁴⁹ a	**26** 3⁴⁴ p	**26** 7⁴⁷ p	**26** 11⁴⁰ p	**4** 3⁴⁶ a	**4** 7⁴⁹ a	**4** 11³⁹ a	**4** 3⁴⁸ p	**4** 7³⁸ p	**4** 11⁴⁵ p
2½	S 15 W 33	N 61 W 66	S 29 E 89	S 23 E 43	N 79 W 33	S 50 E 36	N 68 W 25	S 68 E 40	N 52 E 19	N 25 W 36	N 05 E 21	N 15 W 19
5	S 23 W 21	N 55 W 67	S 35 E 85	S 26 E 49	N 77 W 39	S 52 E 48	N 40 W 50	S 47 E 32	N 52 E 19	N 40 W 37	N 09 E 33	N 24 W 21
10	S 77 W 30	N 54 W 71	S 25 E 79	S 11 E 44	N 73 W 38	S 54 E 53	N 38 W 51	S 36 E 23	N 65 W 24	N 50 W 38	N 14 W 31	N 12 W 24
15	N 85 W 36	N 58 W 74	S 24 E 76	S 13 E 49	N 84 W 30	S 47 E 67	N 36 W 49	S 04 E 31	S 79 W 19	N 43 W 45	N 05 E 22	N 19 W 28
20	N 48 W 45	N 59 W 63	S 31 E 77	S 20 E 34	S 80 W 10	S 50 E 64	N 34 W 50	S 59 E 37	N 76 W 29	N 40 W 46	N 05 W 26	N 24 W 27
25	N 46 W 47	N 56 W 56	S 34 E 74	S 55 E 41	S 74 E 24	S 36 E 67	N 29 W 51	S 36 E 34	N 69 W 28	N 44 W 47	N 30	N 26 W 23
27½	N 13 W 52	N 62 W 43	S 31 E 72	S 52 E 30	S 71 E 23	S 47 E 65	N 39 W 50	S 28 E 36	S 81 W 22	N 42 W 49	N 04 E 30	N 15 W 20
30	N 13 W 53	N 42 W 32	S 20 E 73	S 83 E 29	S 78 E 23	S 41 E 66	N 41 W 48	S 25 E 33	S 82 W 16	N 45 W 49	N 10 W 24	N 16 W 14
	27 3³⁹ a	**27** 7⁴⁰ a	**27** 11⁴⁴ a	**27** 3⁴⁵ p	**27** 7⁴⁴ p	**27** 11⁴⁹ p	**5** 3⁴⁵ a	**5** 7⁴⁶ a	**5** 11⁴⁹ a	**5** 3⁴⁶ p	**5** 7⁴⁹ p	**5** 11³⁸ p
2½	S 28 E 34	N 15 W 48	S 53 E 33	S 02 W 33	N 47 W 50	N 25 W 36	N 10 W 33	N 67 E 25	S 68 E 33	N 25 E 20	N 12 E 40	N 67 E 34
5	S 29	N 51 W 59	S 53 E 33	S 15 W 33	N 46 W 52	N 21 W 48	N 09 W 39	N 89 E 25	S 43 E 25	N 02 E 40	N 03 W 53	N 63 E 26
10	S 27 E 32	N 42 W 66	S 54 E 38	S 02 W 40	N 42 W 53	N 04 E 47	N 41 W 52	S 50 E 24	S 53 E 29	N 26 W 38	N 11 E 44	N 78 E 28
15	S 39 W 20	N 43 W 65	S 45 E 30	S 01 E 37	N 41 W 45	S 54 E 39	N 40 W 50	S 35 E 23	S 42 E 23	N 28 W 44	N 28 W 20	N 86 E 22
20	S 32 W 23	N 28 W 65	S 34 W 24	S 40 E 27	N 46 W 42	S 22 E 39	N 34 W 48	S 22 E 24	S 11 W 24	N 30 W 43	S 52 E 18	S 78 E 15
25	S 43 E 28	N 30 W 45	S 22 E 21	S 63 E 23	N 47 W 40	S 21 E 38	N 35 W 46	S 26 E 20	S 12 E 19	N 35 W 39	S 80 E 21	S 68 E 15
27½	S 80 E 32	N 31 W 30	S 01 E 21	S 84 E 25	N 51 W 26	S 19 E 37	N 34 W 45	S 29 W 29	S 10 E 19	N 51 W 32	S 10 W 11	S 66 E 18
30	N 89 E 32	N 34 W 18	S 37 E 26	N 73 E 30	N 70 W 12	S 27 E 34	N 42 W 45	S 25 W 26	S 26 E 12	N 36 W 31	S 10 W 11	N 77 E 20
	28 3⁴¹ a	**28** 7³⁹ a	**28** 11⁴⁹ a	**28** 3³⁸ p	**28** 7⁴⁴ p	**28** 11⁴⁹ p	**6** 3⁴⁴ a	**6** 7⁴⁹ a	**6** 11⁵⁰ a	**6** 3⁴⁶ p	**6** 7⁴⁹ p	**6** 11³⁹ p
2½	N 72 E 20	N 21 W 67	N 38 W 30	S 13 E 48	N 51 W 30	S 65 E 20	N 25 W 40	N 42 E 25	S 13 E 21	N 24 W 30	N 03 W 22	N 17 E 19
5	S 70 E 20	N 21 W 75	N 16 W 32	S 24 E 58	N 54 W 36	S 73 E 29	N 21 W 45	N 23 E 25	S 16 E 22	N 29 W 39	N 30 W 27	N 88 E 19
10	S 48 E 24	N 07 W 69	N 23 W 28	S 23 E 57	N 69 W 38	N 87 E 28	N 35 W 47	N 06 E 24	S 18	N 27 W 37	N 33 W 28	N 86 E 26
15	S 65 W 26	N 07 W 68	S 44 W 20	S 26 E 58	N 66 W 32	S 08 E 37	N 36 W 49	N 09 W 31	S 11 W 14	N 27 W 32	N 25 W 25	S 69 E 22
20	S 71 W 25	N 25 W 68	S 23 E 26	S 08 E 62	N 72 W 21	S 64 E 30	N 26 W 48	S 63 W 34	S 06 W 14	N 31 W 24	N 28 W 20	S 59 E 22
25	N 71 W 16	N 33 W 57	S 01 E 25	S 16 E 69	S 64 E 10	S 05 E 47	N 40 W 49	S 65 W 25	S 15 E 16	N 34 W 24	N 20 W 11	S 81 E 21
27½	N 22	N 31 W 45	S 15 E 24	S 28 E 68	S 44 E 24	S 06 W 55	N 45 W 49	S 75 W 25	S 46 E 20	N 34 W 23	N 56 W 8	S 36 E 7
30	N 30 E 26	N 21 W 45	S 06 W 24	S 48 E 56	S 32 E 33	S 17 E 49	N 56 W 47	N 20 W 26	S 37 E 22	N 33 W 22	S 88 W 7	S 30 E 16
	29 3⁴⁹ a	**29** 7⁴⁴ a	**29** 11³⁸ a	**29** 3⁵⁰ p	**29** 7³⁸ p	**29** 11⁴⁴ p	**7** 3⁴⁰ a	**7** 7⁴² a	**7** 11⁴⁴ a	**7** 3⁵⁰ p	**7** 7⁴⁵ p	**7** 11⁴⁹ p
2½	S 33 E 48	N 35 W 33	N 28 W 40	S 27 E 73	N 38 W 33	N 31 W 26	N 07 E 25	N 23 W 40	S 71 E 33	N 16 W 30	N 01 E 40	N 32 E 25
5	S 33 E 66	N 17 W 33	N 23 W 39	S 24 E 74	N 33 W 24	N 58 W 22	N 13 W 46	N 26 W 39	S 52 E 39	N 14 W 34	N 08 E 24	N 72 E 33
10	S 11 E 68	N 14 W 38	N 11 W 31	S 25 E 76	N 22 W 28	N 38 W 17	N 26 W 52	N 33 W 43	S 35 E 23	N 14 W 33	N 17 E 38	N 70 E 38
15	S 35 E 62	N 24 W 44	N 60 W 19	S 31 E 74	N 14 W 36	S 45 E 4	N 29 W 43	N 35 W 45	S 64 E 35	N 24 W 38	N 88 W 25	N 60 E 35
20	S 31 E 74	N 21 W 45	S 63 W 29	S 26 E 75	N 36 E 23	S 27 W 7	N 20 W 37	N 40 W 49	S 67 E 30	N 36 W 43	N 15 W 20	N 58 E 27
25	S 15 E 66	N 26 W 44	S 64 W 24	S 26 E 76	N 36 E 22	S 13 E 20	N 26 W 33	N 35 W 47	S 61 E 36	N 34 W 44	N 37 W 34	N 70 E 40
27½	S 16 W 67	N 19 W 26	S 43 W 33	S 17 E 72	N 54 E 31	S 38 E 27	N 23 W 40	N 40 W 44	S 67 E 29	N 27 W 40	N 70 W 22	N 68 E 39
30	S 54 E 65	N 01 E 22	S 54 W 31	S 30 E 70	N 78 E 24	S 30 E 36	N 27 W 39	N 36 W 42	S 57 E 35	N 36 W 34	N 40 W 20	N 63 E 42
	30 3¹⁹ a	**30** 7⁴⁹ a	**30** 11⁴⁰ a	**30** 3⁴⁴ p	**30** 7³⁹ p	**30** 11³⁸ p	**8** 3⁴⁰ a	**8** 7³⁸ a	**8** 11⁴⁴ a	**8** 3⁴⁹ p	**8** 7³³ p	**8** 11³⁰ p
2½	S 58 E 29	N 53 W 85	N 33 W 40	S 53 E 25	N 26 W 48	N 28 W 46	N 10 E 67	N 08 W 58	N 09 W 31	N 48 W 58	N 43 W 45	S 69 E 40
5	S 12 E 43	N 27 W 74	N 17 W 44	S 27 E 33	N 05 W 55	N 21 W 52	N 26 W 75	N 08 W 67	N 05 W 36	N 27 W 58	N 40 W 47	S 36 E 39
10	S 31 E 39	N 28 W 75	N 39 W 49	S 64 E 24	N 51 W 74	N 19 W 56	N 16 W 85	N 13 W 73	N 12 E 38	N 36 W 83	N 46 W 53	S 64 E 38
15	S 21 E 38	N 21 W 78	N 50 W 49	S 58 E 31	N 13 W 55	N 23 W 42	N 19 W 83	N 30 W 79	N 18 E 42	N 27 W 73	N 25 W 52	S 55 E 44
20	S 33 E 50	N 19 W 75	N 35 W 50	S 36 E 22	N 19 W 62	N 18 W 44	N 24 W 83	N 36 W 68	N 04 E 42	N 20 W 68	N 11 W 50	S 55 E 43
25	S 32 E 53	N 20 W 76	N 48 W 49	S 30 E 26	N 16 W 60	N 36 W 46	N 26 W 79	N 44 W 65	N 10 W 44	N 14 W 66	N 18 W 49	S 28 E 28
27½	S 49 E 51	N 21 W 71	N 24 W 45	S 78 E 24	N 22 W 68	N 25 W 38	N 24 W 78	N 40 W 56	N 21 W 34	N 20 W 57	N 22 W 47	S 58 E 33
30	S 39 E 50	N 33 W 70	N 16 W 44	S 80 E 35	N 23 W 66	N 18 W 37	N 30 W 77	N 38 W 55	N 20 W 38	N 13 W 56	N 40 W 44	S 51 E 33

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	9 3^{49} a	9 7^{44} a	9 11^{42} a	9 3^{49} p	9 7^{38} p	9 11^{44} p	18 3^{44} a	18 7^{42} a	18 11^{42} a	18 3^{44} p	18 7^{46} p	18 11^{38} p
2½	N 03 W 40	N 26 W 34	S 58 E 59	S 42 W 25	N 07 E 25	S 38 E 48	S 76 E 29	S 39 W 48	N 48 W 40	N 41 W 21	S 03 E 70	N 61 W 34
5	N 01 W 43	N 41 W 48	S 45 E 47	S 52 W 25	N 05 E 31	S 33 E 58	E 35	S 11 E 54	N 43 W 46	N 40 W 19	S 25 E 69	N 63 W 33
10	N 19 W 52	N 30 W 65	S 47 E 53	S 60 W 36	N 24 W 32	S 35 E 55	S 89 E 38	S 26 E 78	N 37 W 30	S 42 E 2	S 60 E 71	N 67 W 34
15	N 31 W 49	N 26 W 64	S 54 E 56	S 24 W 30	N 14 W 30	S 28 E 53	S 73 E 45	S 30 E 75	S 84 E 19	S 42 E 2	S 50 E 74	S 27 E 20
20	N 23 W 52	N 28 W 52	S 56 E 54	S 35 W 21	N 36 W 30	S 34 E 58	S 69 E 42	S 35 E 72	S 55 E 29	S 02 E 10	S 49 E 71	S 59 E 15
25	N 30 W 49	N 52 W 39	S 50 E 56	S 56 W 21	N 54 W 21	S 35 E 57	S 62 E 44	S 42 E 70	S 63 E 23	S 30 E 20	S 49 E 69	S 67 E 15
27½	N 24 W 51	N 52 W 38	S 65 E 52	S 45 W 17	N 58 W 21	S 86 E 59	S 68 E 33	S 52 E 69	S 70 E 21	S 26 E 30	S 53 E 67	S 58 E 24
30	N 36 W 50	N 50 W 37	S 68 E 51	S 47 W 17	N 63 W 18	S 35 E 49	S 57 E 30	S 50 E 68	N 76 E 16	S 43 E 22	S 45 E 61	S 65 E 26
	10 3^{47} a	**10** 7^{49} a	**10** 11^{44} a	**10** 3^{49} p	**10** 7^{38} p	**10** 11^{44} p	**19** 3^{39} a	**19** 7^{42} a	**19** 11^{44} a	**19** 3^{50} p	**19** 7^{45} p	**19** 11^{49} p
2½	N 63 E 11	S 65 E 40	S 36 E 37	0	N 33 W 33	S 33 E 48	N 30 W 29	S 53 E 30	S 65 W 16	N 26 W 40	S 78 E 40	S 15 E 19
5	N 47 E 13	S 74 E 46	S 40 E 39	S 39 W 11	N 41 W 32	S 36 E 49	N 26 W 33	S 50 E 34	S 35 W 21	N 29 W 39	S 65 E 45	S 05 E 24
10	N 30 W 19	S 73 E 47	S 32 E 43	S 42 W 11	N 44 W 31	S 40 E 50	N 25 W 23	S 46 E 38	S 08 W 30	N 30 W 35	S 65 E 51	S 09 W 25
15	N 60 E 13	S 70 E 49	S 25 E 41	N 33 E 1	N 36 W 31	S 49 E 49	S 27 E 6	S 42 E 46	S 14 E 24	N 43 W 29	S 50 E 49	S 16 E 16
20	N 11 E 10	S 64 E 48	S 22 E 43	N 33 E 1	N 45 W 33	S 44 E 44	S 34 E 18	S 36 E 49	S 36 E 20	N 26 W 21	S 43 E 47	S 71 E 17
25	N 26 W 13	S 84 E 39	S 27 E 38	N 33 E 1	N 34 W 32	S 34 E 45	S 35 E 27	S 23 E 48	S 67 E 20	N 26 W 6	S 36 E 46	N 85 E 15
27½	N 09 W 14	S 63 E 42	S 46 E 34	N 04 E 12	N 31 W 26	S 29 E 43	S 20 E 15	S 29 E 50	N 86 E 15	S 31 E 10	S 35 E 45	N 79 E 10
30	N 12 W 14	S 63 E 41	S 61 E 41	N 08 E 19	N 44 W 25	S 08 E 38	S 11 E 17	S 30 E 49	N 86 E 15	S 31 E 10	S 39 E 42	N 78 E 10
	11 3^{45} a	**11** 7^{49} a	**11** 11^{46} a	**11** 3^{39} p	**11** 7^{49} p	**11** 11^{39} p	**20** 3^{49} a	**20** 7^{42} a	**20** 11^{49} a	**20** 3^{42} p	**20** 7^{44} p	**20** 11^{49} p
2½	N 17 E 9	N 43 W 50	N 51 E 33	S 01 E 19	N 23 W 59	N 61 E 37	N 46 W 21	S 53 E 48	S 23 E 46	N 63 W 46	N 77 E 34	S 31 E 40
5	N 83 E 11	N 46 W 56	N 50 E 28	S 02 E 17	N 35 W 47	N 70 E 32	N 61 W 28	S 61 E 52	S 26 E 48	N 57 W 39	N 80 E 35	S 50 E 46
10	N 16 E 11	N 45 W 56	S 77 E 36	S 09 E 14	N 25 W 34	N 80 E 31	N 66 W 39	S 50 E 44	S 16 E 44	N 50 W 41	S 68 E 23	S 50 E 44
15	N 16 E 11	N 40 W 48	S 66 E 38	S 03 W 16	N 25 W 28	S 64 E 22	N 60 W 22	S 47 E 56	S 36 E 29	N 36 W 28	S 45 E 30	N 02 W 19
20	N 16 E 10	N 39 W 46	S 41 E 38	S 17	N 30 W 56	S 52 E 22	S 05 W 13	S 24 E 44	S 51 E 29	N 38 E 13	S 47 E 33	S 68 E 9
25	N 10 E 10	N 38 W 41	S 36 E 40	S 14 E 12	N 37 W 44	S 52 E 26	S 24 W 8	S 26 E 49	S 61 E 28	N 41 E 13	S 37 E 42	N 50 W 10
27½	N 12 E 10	N 39 W 36	S 32 E 39	S 10 E 8	N 24 W 35	S 50 E 22	S 49 W 6	S 34 E 34	S 80 E 19	N 25 E 11	S 39 E 41	N 50 W 10
30	N 28 E 15	N 32 W 30	S 28 E 39	S 30 W 3	N 20 W 31	S 52 E 25	S 51 W 6	S 32 E 41	S 64 E 18	N 46 E 11	S 28 E 36	N 50 W 10
	12 3^{49} a	**12** 7^{40} a	**12** 11^{42} a	**12** 3^{48} p	**12** 7^{49} p	**12** 11^{46} p	**21** 3^{49} a	**21** 7^{49} a	**21** 11^{49} a	**21** 3^{49} p	**21** 7^{39} p	**21** 11^{45} p
2½	S 63 E 11	N 33 W 67	N 01 E 31	S 73 E 21	N 48 W 67	N 64 E 16	N 85 W 53	N 45 W 16	S 07 W 80	S 82 W 48	N 25 W 11	S 18 E 46
5	S 51 E 24	N 34 W 66	N 23 E 25	S 44 E 24	N 53 W 66	E 19	N 71 W 52	N 16 W 16	S 11 E 78	S 84 W 47	N 52 E 19	S 18 E 52
10	S 32 E 18	N 30 W 60	S 70 E 16	S 30 W 20	N 60 W 55	S 68 E 21	N 56 W 54	S 68 E 32	S 19 E 71	N 77 W 34	N 83 E 23	S 45 E 44
15	N 87 E 10	N 23 W 54	S 30 E 17	S 29 W 20	N 53 W 47	S 62 E 21	N 45 W 55	S 49 E 29	S 26 E 52	N 64 W 29	S 71 E 22	S 50 E 43
20	N 40 W 3	N 21 W 52	S 05 W 17	S 51 W 18	N 38 W 40	S 65 E 20	N 23 W 54	S 09 E 28	S 06 E 45	N 28 W 21	S 26 E 17	S 50 E 48
25	N 40 W 3	N 20 W 47	S 09 W 22	S 70 W 13	N 40 W 39	S 36 E 16	N 16 W 50	S 10 W 33	S 29 E 37	N 76 E 33	S 06 E 23	S 44 E 46
27½	N 41 E 11	N 18 W 47	S 06 W 20	N 04 E 5	N 38 W 31	S 33 E 16	N 03 E 41	S 18 E 35	S 51 E 25	N 76 E 27	S 09 E 20	S 44 E 45
30	N 40 E 11	N 12 W 34	S 01 E 23	N 04 E 5	N 36 W 26	S 30 E 16	N 40	S 12 E 34	S 85 E 22	N 76 E 26	S 08 E 22	S 31 E 37
	13 3^{39} a	**13** 7^{49} a	**13** 11^{40} a	**13** 3^{50} p	**13** 7^{44} p	**13** 11^{49} p	**22** 3^{49} a	**22** 7^{49} a	**22** 11^{38} a	**22** 3^{50} p	**22** 7^{40} p	**22** 11^{42} p
2½	S 43 E 25	N 31 W 58	N 08 W 16	S 29 E 49	N 02 W 20	0	N 80 W 42	N 89 E 25	S 18 E 85	S 84 W 34	0	S 31 E 74
5	S 43 E 33	N 43 W 52	N 40 E 11	S 34 E 48	N 04 W 29	N 06 W 19	N 83 W 47	N 22 E 25	S 23 E 83	S 80 W 37	N 26 E 16	S 34 E 79
10	S 23 E 23	N 44 W 46	N 61 E 11	S 30 E 37	N 12 W 28	S 06 E 2	S 86 W 53	S 45 W 2	S 20 E 79	N 74 W 43	N 84 E 15	S 39 E 80
15	S 03 E 18	N 30 W 44	S 84 E 11	S 16 E 28	N 20 W 27	S 06 E 2	N 71 W 56	S 45 W 2	S 20 E 77	N 68 W 46	S 71 E 23	S 31 E 64
20	S 24 E 7	N 30 W 43	S 35 W 2	S 07 E 23	N 43 W 31	S 06 E 2	N 33 W 60	N 17 W 15	S 20 E 70	N 79 W 48	S 52 E 14	S 50 E 57
25	N 30 W 6	N 30 W 35	S 35 W 2	S 33 E 19	N 65 W 35	S 12 E 12	N 18 W 61	N 08 W 21	S 22 E 57	N 34 W 34	S 05 E 15	S 48 E 47
27½	S 74 E 4	N 30 W 34	S 63 W 8	S 43 E 12	N 78 W 35	S 01 E 16	N 12 W 60	N 08 W 20	S 22 E 64	N 05 E 13	S 66 W 20	S 26 E 41
30	S 86 E 5	N 10 W 26	S 77 W 15	S 11 E 6	N 80 W 35	S 05 E 16	N 09 W 58	N 26 W 20	S 14 E 46	S 76 E 16	S 58 W 20	S 07 W 28
	14 3^{50} a	**14** 7^{49} a	**14** 11^{49} a	**14** 3^{48} p	**14** 7^{49} p	**14** 11^{38} p	**23** 3^{46} a	**23** 7^{46} a	**23** 11^{40} a	**23** 3^{40} p	**23** 7^{49} p	**23** 11^{39} p
2½	S 43 E 36	N 39 W 58	N 13 W 25	S 31 E 37	N 33 W 37	N 25 W 36	N 13 W 25	N 37 E 16	S 33 E 85	S 17 W 25	N 77 E 25	S 51 E 76
5	S 43 E 35	N 36 W 61	N 10 W 25	S 33 E 37	N 43 W 39	N 23 W 24	N 41 W 24	N 03 W 33	S 38 E 83	S 28 W 39	N 65 E 23	S 48 E 78
10	S 36 E 34	N 27 W 61	N 24 W 20	S 33 E 30	N 43 W 41	N 11 W 20	N 54 W 39	N 08 W 42	S 30 E 76	S 36 W 34	N 15 W 29	S 47 E 80
15	S 18 E 19	N 20 W 59	N 18 W 9	S 34 E 22	N 43 W 34	N 27 W 13	N 50 W 44	N 08 W 44	S 26 E 73	S 76 W 38	N 40 W 29	S 18 E 69
20	S 16 E 18	N 11 W 61	S 18 E 4	S 45 E 21	N 29 W 33	N 69 W 6	N 31 W 43	N 50 W 30	S 29 E 57	N 23 W 22	N 78 W 25	S 31 E 66
25	S 25 E 11	N 16 W 59	S 18 E 4	S 47 E 18	N 30 W 30	S 71 W 7	N 06 W 33	N 50 W 29	S 12 E 44	N 44 E 20	N 80 W 24	S 17 E 65
27½	S 43 E 5	N 13 W 48	S 18 E 4	S 45 E 17	N 30 W 24	S 55 W 11	N 04 E 29	N 61 W 30	S 16 E 44	N 64 E 16	S 72 W 25	S 15 E 44
30	S 49 E 5	N 19 W 58	S 18 E 4	S 45 E 17	N 30 W 21	S 18 E 5	N 02 E 28	N 71 W 34	S 13 E 43	N 79 E 25	N 84 W 20	S 05 E 25
	15 3^{50} a	**15** 7^{39} a	**15** 11^{42} a	**15** 3^{48} p	**15** 7^{39} p	**15** 11^{41} p	**24** 3^{39} a	**24** 7^{45} a	**24** 11^{44} a	**24** 3^{45} p	**24** 7^{46} p	**24** 11^{38} p
2½	S 46 E 31	N 54 W 29	N 29 W 40	S 47 E 40	N 53 W 22	N 41 W 24	S 17 W 36	N 09 E 21	S 41 E 73	S 37 W 25	N 39 W 20	S 71 E 53
5	S 53 E 30	N 40 W 33	N 30 W 28	S 30 E 49	N 53 W 20	N 46 W 29	S 24 W 38	N 08 W 25	S 43 E 78	S 27 W 25	N 55 W 29	S 50 E 66
10	S 71 E 24	N 49 W 42	N 29 W 20	S 21 E 44	N 40 W 23	N 30 W 32	S 43 W 30	N 24 W 39	S 25 E 80	S 22 W 24	N 36 W 36	S 41 E 64
15	S 75 E 23	N 30 W 37	N 27 W 13	S 34 E 40	N 31 W 21	N 10 W 33	S 89 W 18	N 36 W 38	S 29 E 77	S 16 W 23	N 39 W 32	S 47 E 58
20	S 56 E 20	N 20 W 34	N 52 W 13	S 40 E 34	N 28 W 13	N 19 W 26	N 34 E 7	N 56 W 43	S 40 E 62	S 19 W 19	N 44 W 21	S 45 E 51
25	S 59 E 22	N 28 W 33	N 52 W 13	S 38 E 30	N 10 W 8	N 27 W 16	N 30 W 27	N 55 W 43	S 47 E 55	S 10 W 19	S 43 E 9	S 46 E 45
27½	E 17	N 21 W 35	S 76 W 6	S 36 E 30	N 24 W 8	S 86 W 5	N 20 W 36	N 56 W 35	S 50 E 49	S 37 E 20	S 43 E 9	S 28 E 35
30	S 89 E 15	N 20 W 32	S 64 W 6	S 36 E 25	N 08 W 8	S 75 W 6	N 10 W 46	N 47 W 34	S 50 E 42	S 66 E 24	S 43 E 9	S 52 E 34
	16 3^{49} a	**16** 7^{49} a	**16** 11^{45} a	**16** 3^{49} p	**16** 7^{39} p	**16** 11^{38} p	**25** 3^{39} a	**25** 7^{42} a	**25** 11^{49} a	**25** 3^{49} p	**25** 7^{46} p	**25** 11^{49} p
2½	S 58 E 23	N 50 W 11	N 38 W 40	N 82 E 24	0	N 46 W 37	S 25 W 7	N 33 W 72	N 71 E 37	S 17 W 24	N 03 W 37	N 69 E 40
5	S 48 E 32	N 40 W 16	N 40 W 44	S 77 E 26	0	N 50 W 39	N 73 W 16	N 26 W 73	N 80 E 37	S 17 W 23	N 33 W 46	N 85 E 36
10	S 46 E 38	N 27 W 15	N 38 W 42	S 64 E 25	0	N 53 W 35	N 43 W 9	N 34 W 68	S 87 E 43	S 09 W 33	N 30 W 51	N 83 E 41
15	S 48 E 41	N 16 W 15	N 31 W 42	S 56 E 27	N 26 W 11	N 62 W 37	S 51 E 20	N 21 W 59	S 80 E 44	S 23 W 37	N 33 W 49	N 89 E 44
20	S 36 E 43	N 06 W 16	N 28 W 41	S 53 E 32	N 28 W 11	N 60 W 40	N 37 E 11	N 16 W 46	S 40 E 36	N 16 E 8	N 33 W 47	N 88 E 45
25	S 30 E 44	N 05 E 17	N 22 W 31	S 64 E 30	N 24 W 11	N 52 W 34	N 22 E 24	N 06 W 40	S 16 E 37	N 05 W 21	N 20 W 46	N 79 E 44
27½	S 31 E 45	N 16 E 20	N 20 W 22	S 64 E 30	N 16 W 11	N 57 W 29	N 23 E 27	N 41 W 30	S 09 E 34	N 17 E 21	N 05 W 31	N 88 E 44
30	S 30 E 38	N 05 E 20	N 38 W 16	S 62 E 31	N 14	N 70 W 17	N 27 E 33	N 66 W 19	S 08 W 35	N 20 E 21	N 06 E 24	N 82 E 45
	17 3^{41} a	**17** 7^{49} a	**17** 11^{49} a	**17** 3^{38} p	**17** 7^{49} p	**17** 11^{39} p	**26** 3^{44} a	**26** 7^{39} a	**26** 11^{49} a	**26** 3^{44} p	**26** 7^{39} p	**26** 11^{49} p
2½	0	S 25 E 18	N 48 W 70	S 68 E 33	S 48 E 48	N 53 W 25	S 41 E 16	N 29 W 48	N 45 E 19	S 48 E 19	N 07 W 26	N 62 E 25
5	S 41 E 21	S 11 E 25	N 39 W 69	S 43 E 24	S 22 E 66	N 71 W 37	S 10 E 20	N 38 W 45	N 64 E 23	S 57 E 23	N 08 W 29	N 80 E 25
10	S 51 E 28	S 27 E 24	N 43 W 55	S 16 E 39	S 21 E 64	N 73 W 27	S 01 E 25	N 34 W 46	N 78 E 25	S 68 E 28	N 02 E 33	E 24
15	S 11 E 36	S 29 E 31	S 42 E 15	S 26 E 44	S 17 E 58	S 21 E 23	N 44 E 18	N 34 W 45	S 73 E 25	S 69 E 27	N 07 W 33	N 86 E 23
20	S 17 E 38	S 41 E 38	N 75 W 31	S 29 E 49	S 17 E 57	S 38 E 27	N 14 W 2	N 07 W 37	S 11 E 29	S 72 E 26	N 16 W 32	S 37 E 16
25	S 31 E 42	S 35 E 37	N 43 W 29	S 10 E 45	S 24 E 49	S 45 E 22	N 11 E 17	N 15 W 32	S 05 E 17	S 67 E 26	N 18 W 33	S 25 E 17
27½	S 11 E 47	S 51 E 30	N 13 E 32	S 04 E 41	S 16 E 48	S 26 E 25	N 16 E 20	N 21 W 25	S 02 W 14	N 68 E 5	N 11 W 34	S 27 E 24
30	S 10 E 43	S 49 E 20	N 08 W 30	S 09 E 33	S 50 E 50	S 71 E 30	N 02 E 21	N 34 W 31	S 09 E 14	N 20 E 9	N 09 W 32	S 06 W 33

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	27 3^{49} a	27 7^{41} a	27 11^{49} a	27 3^{50} p	27 7^{39} p	27 11^{45} p	8 3^{39} a	8 7^{45} a	8 11^{46} a	8 3^{48} p	8 7^{49} p	8 11^{39} p
2½	S 81 E 34	N 18 W 48	N 24 E 27	S 60 W 11	N 04 E 25	S 08 E 16	N 43 W 40	0	S 03 E 40	S 72 W 20	S 32 W 11	S 48 E 42
5	S 67 E 38	N 28 W 47	N 12 E 33	0	N 31 W 33	S 07 W 25	N 33 W 39	N 33 W 33	S 03 E 46	N 77 W 24	S 27 W 13	S 35 E 69
10	S 67 E 37	N 29 W 57	N 21 W 33	S 64 E 19	N 21 W 45	S 39 W 32	N 35 W 46	N 43 W 39	S 09 W 44	S 86 W 23	S 12 W 19	S 30 E 56
15	S 64 E 35	N 28 W 64	N 01 W 26	S 51 E 20	N 14 W 50	S 39 W 31	N 22 W 50	N 59 W 38	S 15 W 57	S 80 W 25	S 08 W 18	S 26 E 59
20	S 59 E 33	N 28 W 62	N 30 W 17	S 25 E 15	N 29 W 45	S 45 W 22	N 40 W 52	S 86 W 30	S 10 W 55	S 34 W 20	S 25 W 20	S 40 E 53
25	S 63 E 31	N 11 W 50	N 44 W 7	S 31 E 9	N 14 W 41	S 85 W 23	N 43 W 49	S 81 W 21	S 64	S 03 W 18	S 16 E 22	S 40 E 51
27½	S 63 E 30	N 14 W 36	S 77 W 14	N 49 W 4	N 41	S 61 W 22	N 54 W 45	S 58 W 22	S 06 E 63	S 31 E 16	S 25 E 33	S 57 E 39
30	S 64 E 28	N 12 W 36	S 05 E 8	E 9	N 27 W 15	S 44 W 21	N 61 W 42	S 47 W 22	S 22 E 62	S 09 E 23	S 17 E 39	S 51 E 38
	28 3^{46} a	**28** 7^{49} a	**28** 11^{49} a	**28** 3^{49} p	**28** 7^{39} p	**28** 11^{39} p	**9** 3^{39} a	**9** 7^{44} a	**9** 11^{46} a	**9** 3^{49} p	**9** 7^{42} p	**9** 11^{46} p
2½	S 18 E 40	N 79 E 48	N 24 E 27	S 28 E 34	N 41 W 29	N 36 W 27	0	N 39 W 40	S 58 E 25	N 07 E 24	N 03 W 33	S 88 E 70
5	S 08 W 46	N 75 E 58	N 12 E 33	S 33 E 38	N 74 W 33	N 22 W 24	N 35 E 25	N 40 W 44	S 56 E 32	N 02 W 32	N 43 W 33	S 77 E 69
10	S 09 W 48	N 87 E 65	N 21 W 33	S 44 E 27	N 30 W 39	N 35 W 20	N 17 E 33	N 54 W 47	S 47 E 38	N 43 W 33	N 38 W 45	S 72 E 70
15	S 01 E 49	S 86 E 54	N 01 W 26	S 69 E 26	N 39 W 41	N 42 W 17	N 05 W 37	N 43 W 49	S 50 E 37	N 34 W 34	N 57 W 50	S 64 E 74
20	S 02 E 50	S 82 E 52	N 31 W 17	S 31 E 28	N 10 W 44	N 58 W 13	N 20 W 26	N 26 W 48	S 53 E 36	N 39 W 35	N 40 W 49	S 60 E 60
25	S 07 E 48	S 66 E 51	N 47 W 7	S 37 E 31	N 24 W 43	S 36 E 6	N 21 W 31	N 21 W 33	S 51 E 36	N 51 W 34	N 33 W 40	S 60 E 47
27½	S 43 E 46	S 65 E 46	S 52 W 16	S 16 E 26	N 04 E 38	S 36 E 6	N 23 W 31	N 45 W 28	S 53 E 32	N 51 W 34	N 21 W 33	S 09 E 40
30	S 49 E 46	S 28 E 40	S 04 E 8	S 13 E 24	N 04 W 38	N 70 E 7	N 27 W 24	N 69 W 21	S 30 E 28	N 57 W 33	N 63 W 24	S 23 W 32
	1 3^{46} a	**1** 7^{49} a	**1** 11^{49} a	**1** 3^{42} p	**1** 7^{49} p	**1** 11^{39} p	**10** 3^{40} a	**10** 7^{39} a	**10** 11^{49} a	**10** 3^{49} p	**10** 7^{41} p	**10** 11^{46} p
2½	S 27 E 40	S 55 E 11	N 06 W 20	S 48 E 43	0	N 33 W 37	N 42 E 16	N 13 W 48	S 55 E 33	N 04 E 21	N 73 W 48	S 37 E 33
5	S 27 E 53	N 73 E 19	N 23 W 30	S 43 E 45	N 24 W 7	N 33 W 35	N 32 E 25	N 27 W 69	S 58 E 39	N 02 W 25	N 70 W 52	S 43 E 32
10	S 26 E 48	N 72 E 32	N 23 W 35	S 43 E 45	0	N 29 W 36	N 07 E 28	N 54 W 77	S 44 E 38	N 03 W 39	N 60 W 55	S 39 E 36
15	S 25 E 46	N 87 E 33	N 34 W 37	S 45 E 46	0	N 34 W 21	N 09 W 45	N 26 W 75	S 58 E 44	N 57 W 31	N 62 W 52	S 45 E 37
20	S 25 E 47	N 66 E 30	N 17 W 4	S 26 E 43	N 06 E 11	N 21 W 21	N 09 W 44	N 23 W 57	S 44 E 29	N 60 W 45	N 58 W 46	S 48 E 37
25	S 12 E 46	N 09 E 16	N 17 W 4	S 26 E 37	N 08 E 16	N 42 W 17	N 14 W 49	N 20 W 59	S 25 E 28	N 44 W 36	N 54 W 41	S 60 E 38
27½	S 20 E 45	N 05 E 16	S 25 E 9	S 37 E 30	N 16 E 20	S 20 W 6	N 25 W 48	N 19 W 58	S 24 E 28	N 26 W 38	N 34 W 36	S 69 E 32
30		N 21 E 14	S 25 E 9	S 42 E 29	N 16 E 20	S 20 W 7	N 20 W 47	N 20 W 46	S 05 E 19	N 25 W 42	N 08 E 34	S 51 E 27
	2 3^{44} a	**2** 7^{45} a	**2** 11^{46} a	**2** 3^{48} p	**2** 7^{49} p	**2** 11^{40} p	**11** 3^{49} a	**11** 7^{44} a	**11** 11^{47} a	**11** 3^{46} p	**11** 7^{44} p	**11** 11^{45} p
2½	S 39 E 48	N 72 E 33	N 15 W 70	N 45 E 25	N 39 E 40	N 21 W 33	N 35 W 48	N 30 W 70	S 63 E 33	N 48 W 29	N 33 W 36	S 28 E 59
5	S 30 E 52	N 57 E 32	N 38 W 69	N 36 E 25	N 07 E 39	N 26 W 46	N 33 W 58	N 40 W 73	N 86 E 46	N 48 W 29	N 18 W 47	S 31 E 58
10	S 37 E 50	N 73 E 31	N 34 W 66	N 47 E 24	N 10 W 45	N 39 W 51	N 38 W 52	N 35 W 72	E 48	N 53 W 38	N 19 W 68	S 28 E 45
15	S 33 E 44	S 63 E 23	N 12 W 65	N 37 E 27	N 32 W 44	N 36 W 49	N 27 W 51	N 43 W 63	S 81 E 49	N 53 W 22	N 28 W 55	S 28 E 45
20	S 35 E 37	S 79 E 22	N 16 W 67	S 80 E 36	N 22 E 36	N 29 W 45	N 36 W 54	N 46 W 43	N 89 E 47	N 53 W 21	N 08 W 53	S 28 E 44
25	S 43 E 41	S 80 E 25	N 25 W 70	S 77 E 30	N 02 E 34	N 38 W 46	N 30 W 52	N 45 W 37	N 86 E 45	N 16 W 30	N 27 W 52	S 31 E 53
27½	S 59 E 37	S 78 E 25	N 25 W 41	S 61 E 31	N 05 W 37	N 53 W 45	N 24 W 51	N 59 W 32	N 86 E 47	N 07 W 30	N 37 W 39	S 15 E 53
30	S 63 E 42	S 80 E 25	N 39 W 33	S 66 E 26	N 13 W 37	N 32 W 42	N 33 W 38	N 60 W 23	N 87 E 46	N 07 E 30	N 44 W 44	S 21 E 52
	3 3^{39} a	**3** 7^{39} a	**3** 11^{42} a	**3** 3^{49} p	**3** 7^{46} p	**3** 11^{49} p	**12** 3^{46} a	**12** 7^{49} a	**12** 11^{45} a	**12** 3^{49} p	**12** 7^{38} p	**12** 11^{46} p
2½	N 32 E 25	N 57 E 31	N 02 E 76	N 01 W 40	N 22 E 33	N 38 W 48	S 13 E 40	N 08 W 48	N 82 E 30	N 40 E 16	S 73 E 29	S 14 W 37
5	N 16 E 33	N 51 E 34	N 06 E 57	N 46	N 22 E 33	N 27 W 61	S 05 W 49	N 33 W 58	N 70 E 34	S 40 W 1	S 85 E 48	S 08 W 39
10	N 52 W 32	N 25 E 23	N 04 W 56	N 02 E 51	N 02 E 38	N 14 W 65	S 20 W 47	N 54 W 62	N 57 E 33	S 77 W 24	S 85 E 46	S 05 E 38
15	N 30 W 30	N 64 W 36	N 16 W 54	N 26 W 45	N 23 W 45	N 23 W 66	S 30 W 46	N 43 W 63	N 74 E 26	N 73 W 29	S 66 E 52	S 19 E 43
20	N 34 W 22	W 31	N 48 W 54	N 14 W 48	N 08 W 49	N 23 W 64	S 31 E 44	N 29 W 70	S 89 E 26	N 67 W 33	S 78 E 51	S 26 E 46
25	N 26 W 25	N 69 W 23	N 26 W 60	N 07 W 46	N 20 W 48	N 36 W 64	N 55 W 49	N 12 E 51	S 66 E 32	N 75 W 34	S 56 E 30	S 33 E 48
27½	N 28 W 30	N 65 W 23	N 38 W 60	N 32 W 43	N 38 W 48	N 26 W 57	N 20 W 52	N 10 W 37	S 45 E 36	N 47 W 32	S 21 E 15	S 24 E 49
30	N 52 W 21	N 38 W 28	N 36 W 59	N 04 W 45	N 31 W 46	N 26 W 57	N 14 E 58	N 01 E 35	S 40 E 36	N 36 W 32	S 26 E 15	S 34 E 47
	4 3^{39} a	**4** 7^{39} a	**4** 11^{49} a	**4** 3^{42} p	**4** 7^{44} p	**4** 11^{49} p	**13** 3^{45} a	**13** 7^{46} a	**13** 11^{49} a	**13** 3^{42} p	**13** 7^{49} p	**13** 11^{49} p
2½	N 25 W 36	S 87 W 37	N 36	N 08 W 48	N 65 E 31	N 32 E 46	S 38 E 25	N 15 W 34	S 63 E 19	N 28 W 20	N 13 W 80	S 83 E 37
5	N 48 W 48	N 62 W 25	N 15 W 48	N 15 W 69	N 79 E 24	N 04 W 46	S 20 E 25	N 13 W 44	S 63 E 34	N 45 W 23	N 26 W 78	S 75 E 29
10	N 43 W 63	N 15	N 44 W 47	N 21 W 60	S 86 E 33	N 06 W 48	S 17 E 30	N 32 W 49	S 75 E 33	S 37 W 11	N 44 W 76	S 45 E 14
15	N 33 W 60	S 68 E 4	N 34 W 56	N 24 W 43	S 82 E 38	N 19 W 49	S 36 E 31	N 36 W 46	S 75 E 33	N 76 W 9	N 36 W 51	S 20 W 21
20	N 49 W 54	S 36 E 22	N 22 W 44	N 16 W 48	S 86 E 43	N 20 W 48	S 69 E 22	N 28 W 42	S 66 E 35	N 10 W 15	N 23 W 50	S 22 W 15
25	N 41 W 52	S 04 E 16	N 36 W 24	N 15 W 53	S 89 E 25	N 20 W 48	S 46 E 21	N 36 W 33	S 60 E 34	N 12 W 21	N 39 W 36	S 16 W 24
27½	N 41 W 55	S 09 E 16	N 09 W 24	N 37 W 41	N 06 W 17	N 19 W 47	S 46 E 21	N 21 W 28	S 46 E 33	N 06 E 26	N 38 W 34	S 02 E 24
30	N 36 W 55	S 28 E 22	N 10 E 15	N 21 W 40	N 04 W 25	N 05 W 44	S 30 E 10	N 22	S 43 E 33	N 15 W 20	N 07 W 16	S 27 W 14
	5 3^{49} a	**5** 7^{44} a	**5** 11^{49} a	**5** 3^{45} p	**5** 7^{39} p	**5** 11^{43} p	**14** 3^{38} a	**14** 7^{46} a	**14** 11^{51} a	**14** 3^{45} p	**14** 7^{46} p	**14** 11^{49} p
2½	N 08 W 58	0	N 32 E 33	N 22 E 40	N 77 E 33	N 27 E 33	S 17 W 14	N 03 W 48	N 52 E 53	0	N 38 W 92	N 01 E 58
5	N 16 W 61	N 45 E 25	N 26 E 31	N 02 E 39	N 67 E 32	N 02 W 39	S 20 W 19	N 18 W 69	N 41 E 45	S 28 E 25	N 25 W 86	N 04 E 63
10	N 26 W 64	S 81 E 24	N 08 W 27	N 14 W 52	N 83 E 20	N 14 W 45	S 33 W 18	N 35 W 67	N 79 E 21	S 02 E 32	N 20 W 79	N 49
15	N 34 W 63	S 64 E 24	N 10 W 30	N 14 W 49	N 66 E 13	N 35 W 44	N 54 W 7	N 50 W 65	N 84 E 25	S 36 W 32	N 15 W 64	N 15 W 43
20	N 25 W 64	S 60 E 31	N 28 E 28	N 26 W 48	N 73 E 12	N 25 W 28	N 04 W 14	N 34 W 73	S 56 W 10	S 63 W 24	N 19 W 53	N 12 W 32
25	N 21 W 62	S 48 E 12	N 15 E 27	N 40 W 46	S 65 E 23	N 27 W 18	N 03 W 19	N 34 W 70	S 56 W 10	S 60 W 20	N 19 W 50	N 02 E 22
27½	N 24 W 63	S 44 E 18	N 08 W 26	N 40 W 46	S 46 E 27	S 15 E 13	N 19 W 22	N 33 W 58	S 50 E 12	S 44 W 19	N 21 W 47	N 02 W 22
30	N 26 W 65	N 81 W 6	N 17 W 28	N 36 W 38	S 13 E 28	S 15 E 13	N 17 W 26	N 26 W 46	S 32 E 24	S 37 W 19	N 20 W 39	N 06 W 35
	6 3^{46} a	**6** 7^{49} a	**6** 11^{49} a	**6** 3^{49} p	**6** 7^{38} p	**6** 11^{49} p	**15** 3^{39} a	**15** 7^{39} a	**15** 11^{40} a	**15** 3^{49} p	**15** 7^{40} p	**15** 11^{49} p
2½	N 09 E 67	N 52 E 25	N 48 W 19	N 23 W 36	S 83 E 24	N 47 E 30	N 22 E 46	N 01 E 73	N 42 E 16	N 27 E 33	N 01 E 33	N 71 W 27
5	N 11 W 75	N 23 E 25	N 43 W 19	N 42 W 58	S 35 E 20	S 86 E 29	N 08 E 49	N 04 E 76	N 03 W 25	N 07 E 39	N 03 E 39	N 19 E 46
10	N 13 W 81	N 36 E 28	N 24 W 23	N 37 W 61	S 69 E 18	N 77 E 28	N 03 E 48	N 07 W 80	N 03 W 32	N 01 W 38	N 16 W 45	N 12 E 45
15	N 08 W 78	N 40 E 23	N 33 W 28	N 32 W 66	S 06 W 10	S 83 E 27	N 08 W 43	N 08 W 78	N 14 W 31	N 07 E 44	N 39 W 50	N 19 W 43
20	N 10 W 75	N 36 E 19	N 13 W 27	N 09 W 53	S 32 E 17	N 74 E 28	N 30 W 48	N 02 E 78	N 14 W 38	N 07 W 45	N 40 W 48	N 12 W 40
25	N 22 W 69	N 26 E 19	N 05 W 29	N 06 E 42	S 30 E 17	N 76 E 25	N 30 W 46	N 10 E 72	N 15 E 37	N 02 E 44	N 41 W 46	N 05 W 38
27½	N 26 W 68	N 76 E 12	N 17 E 27	N 27	S 25 E 22	S 65 E 23	N 25 W 45	N 06 E 65	N 16 E 30	N 10 W 40	N 46 W 46	N 24 W 40
30	N 51 W 67	N 86 E 12	N 13 E 28	N 06 W 27	S 53 E 21	S 51 E 20	N 24 W 41	N 58	N 29 E 30	N 15 E 39	N 40 W 43	N 28 W 33
	7 3^{39} a	**7** 7^{46} a	**7** 11^{51} a	**7** 3^{47} p	**7** 7^{49} p	**7** 11^{38} p	**16** 3^{38} a	**16** 7^{39} a	**16** 11^{44} a	**16** 3^{49} p	**16** 7^{44} p	**16** 11^{49} p
2½	N 04 E 58	N 34 W 33	N 85 E 40	N 18 W 64	N 57 E 40	S 33 E 33	N 27 E 33	N 03 W 58	N 13 W 74	N 29 E 58	N 19 W 67	N 26 W 64
5	N 15 W 61	N 40 W 28	N 57 E 46	N 17 W 63	N 47 E 32	S 59 E 24	N 19 E 32	N 09 W 66	N 10 W 79	N 36 E 66	N 18 W 72	N 18 W 67
10	N 08 W 74	N 09 W 35	N 46 E 30	N 38 W 64	N 18 E 38	N 24 E 33	N 10 W 45	N 17 W 82	N 07 W 80	N 05 E 64	N 16 W 74	N 30 W 53
15	N 09 W 76	N 22 W 49	N 46 E 30	N 04 W 72	N 10 E 37	N 45 W 30	N 15 W 48	N 13 W 79	N 10 W 74	N 12 W 72	N 16 W 78	N 40 W 59
20	N 15 W 74	N 21 W 46	N 46 E 29	N 18 W 69	N 04 E 44	N 10 E 24	N 72 W 38	N 07 W 67	N 04 W 71	N 29 W 70	N 16 W 75	N 59 W 56
25	N 27 W 65	N 15 W 48	N 28 E 33	N 21 W 58	N 06 E 49	N 16 E 30	N 27 W 32	N 30 W 65	N 15 W 73	N 20 W 65	N 20 W 65	N 50 W 44
27½	N 26 W 61	N 16 W 52	N 28 E 31	N 26 W 57	N 06 E 48	N 68 E 31	N 16 W 18	N 14 W 64	N 23 W 71	N 35 W 64	N 16 W 49	N 43 W 46
30	N 52 W 45	N 12 W 51	N 18 E 28	N 26 W 59	N 08 E 46	N 39 E 23	N 31 W 23	N 16 W 68	N 33 W 71	N 32 W 62	N 01 E 39	N 50 W 30

Meter	**17** 3^{49} a	**17** 7^{44} a	**17** 11^{49} a	**17** 4^{00} p	**17** 7^{39} p	**17** 11^{39} p
2½	N 22 E 24	N 39 W 59	N 23 W 76	N 16 W 42	N 18 W 67	N 66 W 85
5	N 30 E 25	N 36 W 69	N 25 W 71	N 16 W 48	N 13 W 75	N 80 W 83
10	N 66 W 30	N 44 W 56	N 22 W 63	N 10 E 54	N 13 W 81	N 64 W 83
15	S 12 E 5	N 10 W 44	N 21 W 58	N 09 W 33	N 07 W 78	N 58 W 73
20	S 12 E 5	N 26 W 29	N 50 W 50	S 04 E 12	N 20 W 66	N 56 W 74
25	S 58 E 20	N 05 E 30	N 61 W 36	S 74 E 21	N 06 W 64	N 39 W 68
27½	S 70 E 30	N 10 W 29	N 62 W 31	S 81 E 27	N 25 W 68	N 42 W 60
30	S 78 E 30	N 10 W 24	N 74 W 32	S 54 E 39	N 10 W 71	N 45 W 51

	18 3^{47} a	**18** 7^{40} a	**18** 11^{40} a	**18** 3^{49} p	**18** 7^{40} p	**18** 11^{38} p
2½	N 33 W 67	N 28 W 58	N 15 W 55	N 53 W 33	S 84 E 25	N 13 W 67
5	N 35 W 66	N 13 W 75	N 19 W 75	N 33 W 34	N 21 E 33	N 16 W 75
10	N 44 W 64	N 28 W 78	N 24 W 73	N 16 W 38	N 20 W 32	N 18 W 73
15	N 55 W 62	N 28 W 82	N 40 W 79	N 41	N 22 E 23	N 13 W 77
20	N 53 W 69	N 22 W 75	N 40 W 76	N 68 W 30	N 01 E 22	N 14 W 66
25	N 49 W 75	N 22 W 71	N 46 W 73	N 36 W 23	N 12 W 19	N 10 W 56
27½	N 45 W 78	N 13 W 72	N 43 W 68	N 76 W 17	N 39 E 11	N 04 W 55
30	N 36 W 76	N 21 W 63	N 39 W 65	S 74 W 11	N 24 E 16	N 08 E 44

	19 3^{39} a	**19** 7^{49} a	**19** 11^{45} a	**19** 3^{49} p	**19** 7^{45} p	**19** 11^{38} p
2½	N 03 W 44	S 05 E 29	N 13 W 67	N 26 W 58	N 18 W 31	N 05 W 48
5	N 03 E 39	S 74 E 33	N 20 W 75	N 28 W 67	N 46 W 37	N 10 W 58
10	N 05 E 31	S 79 E 36	N 13 W 79	N 24 W 73	N 46 W 44	N 22 W 57
15	N 03 E 21	S 87 E 42	N 23 W 73	N 07 E 71	N 43 W 42	N 27 W 50
20	N 07 E 21	S 67 E 36	N 11 W 68	N 03 E 65	N 34 W 44	N 18 W 62
25	N 34 W 16	S 19 W 36	N 17 W 56	N 08 E 58	N 35 W 48	N 23 W 60
27½	N 84 W 24	S 11 W 31	N 16 W 46	N 06 W 56	N 10 W 46	N 11 W 63
30	S 80 W 21	S 38 E 23	N 14 W 32	N 17 W 51	N 10 W 43	N 24 W 67

	20 3^{38} a	**20** 7^{44} a	**20** 11^{49} a	**20** 3^{50} p	**20** 7^{40} p	**20** 11^{45} p
2½	N 08 W 58	N 40 E 36	N 09 E 58	N 06 W 57	N 57 E 50	N 20 E 18
5	N 10 W 66	N 47 E 39	N 02 E 75	N 18 W 63	N 84 E 45	N 17 E 36
10	N 16 W 64	N 44 E 43	N 26 W 73	N 18 W 72	S 84 E 44	N 05 W 48
15	N 04 W 53	N 44 E 41	N 28 W 68	N 18 W 73	S 80 E 40	N 28 W 45
20	N 14 W 45	N 40 E 35	N 18 W 65	N 45 W 73	S 64 E 35	N 16 W 47
25	N 15 W 37	N 37 E 43	N 22 W 65	N 45 W 68	N 57 E 30	N 22 W 44
27½	N 15 W 36	N 38 E 46	N 28 W 70	N 45 W 74	N 66 E 17	N 22 W 43
30	N 15 W 35	N 16 W 49	N 24 W 69	N 45 W 71	N 76 E 16	N 14 W 37

	21 3^{39} a	**21** 7^{38} a	**21** 11^{42} a	**21** 3^{49} p	**21** 7^{44} p	**21** 11^{49} p
2½	N 10 E 48	S 78 E 40	N 85 E 25	N 24 W 33	S 83 E 25	N 72 E 40
5	N 16 W 52	S 62 E 32	E 21	N 33 W 39	S 70 E 30	N 66 E 36
10	N 40 W 57	S 72 E 45	S 74 E 30	N 26 W 47	S 63 E 33	N 29 E 23
15	N 62 W 56	S 70 E 37	S 34 E 33	N 39 W 47	S 58 E 35	N 34 E 24
20	N 51 W 54	S 62 E 36	N 10 W 27	N 40 W 48	S 60 E 42	N 30 E 20
25	N 48 W 61	S 74 E 31	N 26 W 31	N 36 W 46	S 60 E 45	N 09 E 20
27½	N 27 W 60	S 67 E 27	N 26 W 31	N 40 W 48	S 56 E 45	N 01 E 19
30	N 85 W 47	S 61 E 34	N 19 W 26	N 28 W 50	S 41 E 47	N 31 W 20

	22 3^{40} a	**22** 7^{42} a	**22** 11^{49} a	**22** 3^{49} p	**22** 7^{38} p	**22** 11^{39} p
2½	N 08 W 40	N 08 W 24	N 82 E 19	N 20 W 49	N 17 E 19	S 41 E 31
5	N 28 W 47	N 80 E 24	S 89 E 34	N 27 W 52	N 23 E 10	S 40 E 35
10	N 32 W 51	S 83 E 18	N 71 E 33	N 27 W 50	S 20 W 1	S 50 E 38
15	N 29 W 53	N 42 W 19	S 54 E 16	N 31 W 46	S 20 W 1	S 58 E 37
20	N 25 W 51	N 40 W 19	N 07 W 14	N 30 W 44	S 27 E 7	S 53 E 41
25	N 29 W 48	N 27 E 13	N 14 E 7	N 33 W 42	S 29 E 16	S 46 E 44
27½	N 25 W 47	S 17 W 4	N 01 E 17	N 21 W 43	S 27 E 19	S 50 E 44
30	N 20 W 45	N 59 E 9	N 37 W 17	N 24 W 44	S 32 E 18	S 46 E 42

	23 3^{49} a	**23** 7^{45} a	**23** 11^{39} a	**23** 3^{49} p	**23** 7^{39} p	**23** 11^{39} p
2½	N 41 W 70	N 04 E 29	S 48 E 25	N 12 E 58	N 22 E 16	S 83 E 25
5	N 38 W 71	N 20 E 31	N 86 E 40	N 02 E 66	N 13 W 21	S 63 E 33
10	N 26 W 66	N 44 E 33	N 84 E 38	N 04 W 68	N 05 W 32	S 71 E 42
15	N 30 W 53	N 34 E 31	N 85 E 44	N 26 W 63	N 15 W 31	S 79 E 37
20	N 26 W 52	N 29 E 23	N 80 E 40	N 19 W 60	N 26 W 28	E 43
25	N 23 W 45	N 28 E 15	S 35 E 37	N 26 W 48	N 36 W 22	S 86 E 45
27½	N 53 W 41	N 37 E 18	S 74 E 34	N 27 W 48	N 64 W 26	E 41
30	N 51 W 38	N 26 E 15	S 50 E 34	N 20 W 45	N 74 W 22	S 80 E 40

	24 3^{38} a	**24** 7^{49} a	**24** 11^{40} a	**24** 3^{44} p	**24** 7^{40} p	**24** 11^{38} p
2½	N 34	N 22 E 29	S 15 E 48	N 71 W 25	N 83 W 25	S 33 E 76
5	N 03 E 39	N 05 W 39	S 28 E 52	N 47 W 25	N 87 W 34	S 26 E 74
10	N 03 E 44	N 13 W 42	S 12 E 48	N 21 W 32	N 46 W 40	S 22 E 68
15	N 01 E 46	N 32 W 37	S 20 E 41	N 21 W 31	N 78 W 40	S 28 E 70
20	N 04 W 45	N 31 W 36	S 18 E 41	N 55 W 35	N 85 W 33	S 49 E 68
25	N 06 W 46	N 40 W 35	S 17 E 32	N 75 W 33	N 67 W 31	N 18 E 65
27½	N 30 W 50	N 44 W 30	S 14 E 22	N 54 W 32	N 70 W 30	S 42 E 64
30	N 34 W 46	N 70 W 29	S 17 E 18	N 40 W 36	N 71 W 31	S 29 E 63

	25 3^{39} a	**25** 7^{42} a	**25** 11^{39} a	**25** 3^{39} p	**25** 7^{40} p	**25** 11^{45} p
2½	S 82 W 33	N 52 W 45	S 36 E 42	S 57 W 40	N 18 W 46	S 63 E 45
5	S 87 W 39	S 53 W 47	S 30 E 66	S 66 W 32	N 16 W 42	S 61 E 49
10	S 87 W 38	N 70 W 48	S 33 E 60	S 47 W 23	N 19 W 30	S 52 E 53
15	N 87 W 30	N 72 W 49	S 26 E 55	S 15 W 20	N 18 W 15	S 44 E 51
20	N 66 W 17	N 69 W 47	S 22 E 64	S 35 E 19	N 26 W 10	S 42 E 46
25	N 48 E 29	N 71 W 43	S 24 E 61	S 70 E 20	N 28 W 10	S 38 E 45
27½	N 66 E 25	N 66 W 28	S 35 E 50	N 88 E 18	N 32 W 10	S 34 E 44
30	N 52 E 28	N 17	S 20 E 49	N 78 E 21	N 45 W 4	S 33 E 44

	26 3^{40} a	**26** 7^{39} a	**26** 11^{42} a	**26** 3^{49} p	**26** 7^{42} p	**26** 11^{47} p
2½	S 38 W 17	N 41 W 80	N 54 E 29	0	N 61 W 66	S 73 E 59
5	N 67 W 20	N 36 W 78	N 18 E 31	S 07 W 11	N 61 W 67	S 67 E 69
10	N 10 W 6	N 30 W 54	S 27 E 43	S 28 W 24	N 56 W 71	S 30 E 67
15	N 03 E 7	N 19 W 29	S 13 E 47	S 43 W 15	N 60 W 53	S 36 E 75
20	N 15 E 11	N 16 W 22	S 06 E 48	N 31 E 4	N 43 W 37	S 23 E 72
25	N 48 E 19	N 23 W 19	S 07 E 46	N 31 E 4	N 48 W 34	S 20 E 74
27½	N 40 E 20	N 23 W 19	S 08 E 42	N 31 E 4	N 70 W 26	S 26 E 74
30	N 40 E 21	N 54 W 10	S 04 E 37	N 36 W 6	N 85 W 20	S 24 E 75

	27 3^{40} a	**27** 7^{39} a	**27** 11^{42} a	**27** 3^{50} p	**27** 7^{42} p	**27** 11^{44} p
2½	S 05 W 36	N 32 W 48	S 69 E 20	S 12 W 19	N 33 W 70	S 81 E 18
5	S 23 E 44	N 45 W 59	S 62 E 25	S 17 W 19	N 22 W 69	S 82 E 25
10	S 44 E 52	N 38 W 57	S 50 E 28	S 18 W 23	N 02 W 55	S 76 E 33
15	S 32 E 56	N 31 W 66	S 46 E 34	S 27 W 28	N 09 W 47	S 60 E 38
20	S 39 E 51	N 37 W 64	S 48 E 37	S 08 W 27	N 11 W 29	S 40 E 43
25	S 54 E 45	N 53 W 55	S 50 E 36	S 20 E 21	N 20 E 12	S 26 E 46
27½	S 54 E 42	N 28 W 30	S 41 E 46	S 56 E 22	S 16 E 8	S 38 E 49
30	S 56 E 39	N 43 W 24	S 49 E 48	S 57 E 19	S 16 E 18	S 45 E 48

	28 3^{44} a	**28** 7^{45} a	**28** 11^{38} a	**28** 3^{50} p	**28** 7^{39} p	**28** 11^{39} p
2½	S 22 W 25	N 38 W 59	N 03 W 25	S 48 E 20	N 19 W 59	N 53 W 33
5	S 18 W 33	N 34 W 49	N 02 E 40	N 48 W 1	N 14 W 63	N 57 W 24
10	S 21 W 27	N 24 W 61	N 42	N 11 E 11	N 18 W 67	N 41 W 30
15	S 26 E 27	N 23 W 55	N 10 W 44	N 17 E 17	N 18 W 65	N 34 W 20
20	S 33 E 28	N 21 W 53	N 40 E 32	S 41 E 14	N 25 W 73	S 30 W 16
25	S 18 E 34	N 22 W 52	N 79 W 11	S 41 E 11	N 25 W 66	S 19 E 27
27½	S 24 E 33	N 21 W 39	S 04 W 12	N 11 E 18	N 23 W 58	S 41 E 27
30	S 70 E 26	N 29 W 25	S 14 W 22	N 17 E 20	N 20 W 46	S 57 E 23

	29 3^{44} a	**29** 8^{49} a	**29** 11^{48} a	**29** 3^{42} p	**29** 7^{44} p	**29** 11^{40} p
2½	S 81 E 11	N 28 W 85	N 40 W 46	0	N 43 W 71	N 25 W 20
5	S 87 E 20	N 25 W 78	N 39 W 49	0	N 38 W 72	N 66 W 20
10	S 72 E 25	N 22 W 75	N 34 W 45	N 27 W 20	N 26 W 74	N 45 W 24
15	S 53 E 33	N 30 W 68	N 27 W 44	N 48 W 23	N 24 W 68	N 41 W 28
20	S 50 E 43	N 26 W 58	N 27 W 45	N 59 E 14	N 28 W 65	N 50 W 27
25	S 48 E 37	N 28 W 56	N 25 E 29	N 80 E 19	N 31 W 57	N 45 W 20
27½	S 45 E 34	N 30 W 51	N 50 E 18	S 73 E 20	N 12 W 59	N 26 W 20
30	S 46 E 33	N 28 W 33	N 74 E 20	S 54 E 20	N 27 W 55	N 10 W 17

	30 3^{39} a	**30** 7^{44} a	**30** 11^{49} a	**30** 3^{49} p	**30** 7^{48} p	**30** 11^{44} p
2½	S 53 E 21	N 12 W 68	N 03 E 70	N 16 W 16	N 10 W 56	N 09 W 35
5	S 39 E 24	N 14 W 65	N 02 W 65	N 27 W 20	N 15 W 55	N 23 W 40
10	S 27 E 24	N 17 W 73	N 05 W 47	N 6	N 16 W 52	N 30 W 40
15	S 21 E 30	N 26 W 70	N 05 W 39	N 7	N 15 W 50	N 30 W 38
20	S 11 E 38	N 16 W 72	N 08 W 35	N 27 E 6	N 10 W 46	N 31 W 36
25	S 44 E 27	N 24 W 63	N 16 W 35	N 30 E 12	N 10 W 42	N 32 W 33
27½	S 32 E 20	N 21 W 62	N 16 W 34	S 86 E 8	N 10 W 41	N 36 W 30
30	S 28 E 29	N 38 W 46	N 16 W 34	N 83 E 11	N 10 W 36	N 37 W 30

	31 3^{39} a	**31** 7^{42} a	**31** 11^{49} a	**31** 3^{59} p	**31** 7^{44} p	**31** 11^{42} p
2½	S 23 E 40	N 57 W 50	N 05 W 53	S 33 E 25	N 65 W 20	N 53 W 53
5	S 21 E 39	N 63 W 20	N 02 W 44	S 43 E 25	N 57 W 25	N 50 W 52
10	S 12 E 42	S 40 W 7	N 28 W 21	S 30 E 28	N 54 W 30	N 44 W 47
15	S 18 E 40	S 28 W 11	N 60 W 5	S 31 E 23	N 45 W 33	N 38 W 42
20	S 17 E 40	S 09 E 12	N 77 W 6	S 32 E 22	N 43 W 37	N 24 W 31
25	S 10 E 34	S 39 E 15	S 58 W 3	S 43 E 19	N 34 W 42	N 18 W 20
27½	S 15 E 34	S 38 E 17	S 50 W 2	S 26 E 18	N 30 W 43	N 22 W 16
30	S 10 E 33	S 54 E 21	S 45 W 2	S 24 E 21	N 28 W 45	N 16 W 16

	1 3^{44} a	**1** 7^{45} a	**1** 11^{42} a	**1** 3^{40} p	**1** 7^{44} p	**1** 11^{49} p
2½	N 20 W 30	S 17 W 16	N 29 W 36	N 66 E 24	N 84 E 11	N 20 W 40
5	N 21 W 29	S 15 W 25	N 31 W 39	N 53 E 29	S 73 E 11	N 19 W 46
10	N 12 W 24	S 05 W 24	N 28 W 38	S 86 E 28	N 64 E 11	N 18 W 47
15	S 21 E 5	S 04 E 23	N 19 W 42	N 67 E 20	N 39 E 6	N 21 W 49
20	S 21 E 5	S 80 E 15	N 31 W 36	N 04 E 20	S 53 W 1	N 09 W 44
25	S 48 W 19	S 85 E 15	N 16 W 32	N 32 W 21	N 20 E 7	N 26 W 35
27½	S 17 W 27	N 74 E 16	N 09 W 18	N 65 W 13	N 34 E 14	N 16 W 29
30	S 11 E 36	N 79 E 16	N 09 W 8	N 80 W 9	N 20 E 10	N 44 W 22

	2 3^{48} a	**2** 7^{45} a	**2** 11^{40} a	**2** 3^{39} p	**2** 7^{45} p	**2** 11^{39} p
2½	N 28 W 20	S 13 E 20	N 32 W 16	N 13 W 33	S 73 E 25	N 07 E 34
5	N 21 W 20	S 23 E 25	N 41 W 34	N 23 W 47	S 64 E 25	N 21 W 38
10	N 46 W 24	S 20 E 28	N 40 W 33	N 18 W 44	S 53 E 24	N 26 W 35
15	N 53 W 24	S 12 E 27	N 54 W 30	N 27 W 37	S 50 E 31	N 19 W 28
20	N 34 W 20	S 20 E 28	N 51 W 20	N 30 W 30	S 52 E 30	N 20 W 31
25	N 44 W 19	S 15 E 27	N 18 W 14	N 47 W 18	S 42 E 30	N 24 W 32
27½	N 38 W 17	S 21 E 27	N 13 E 12	N 54 W 20	S 42 E 30	N 23 W 33
30	N 72 W 12	S 24 E 30	N 59 E 9	N 32 W 18	S 41 E 26	N 21 W 33

	3 3^{49} a	**3** 7^{49} a	**3** 11^{49} a	**3** 3^{46} p	**3** 7^{40} p	**3** 11^{45} p
2½	N 30 W 33	S 33 E 33	N 82 W 36	N 53 W 59	S 08 E 34	S 61 E 33
5	N 35 W 39	S 26 E 35	S 89 W 32	N 43 W 58	S 34 E 38	S 74 E 24
10	N 31 W 45	S 26 E 37	S 87 W 13	N 44 W 33	S 46 E 39	S 74 E 28
15	N 38 W 30	S 21 E 37	E 6	N 28 W 18	S 49 E 38	N 89 E 30
20	N 43 W 29	S 18 E 39	S 32 E 14	N 41 W 10	S 50 E 34	N 76 E 22
25	N 54 W 24	S 16 E 38	S 41 E 10	N 41 W 10	S 40 E 33	N 41 E 23
27½	N 38 W 23	S 13 E 42	N 85 E 6	N 41 W 10	S 40 E 33	N 16 E 24
30	N 43 W 19	S 10 E 42	N 85 E 6	N 41 W 10	S 40 E 31	N 16 E 23

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	4 3^{39} a	4 7^{45} a	4 11^{42} a	4 3^{44} p	4 7^{48} p	4 11^{45} p	13 3^{49} a	13 7^{48} a	13 11^{44} a	13 3^{46} p	13 7^{49} p	13 11^{45} p
2½	N 51 W 53	N 82 E 48	S 07 W 40	N 23 W 68	S 75 E 29	S 57 W 37	S 07 W 46	N 65 W 21	S 31 E 30	S 05 E 31	N 71 W 27	S 37 E 30
5	N 40 W 48	N 88 E 47	S 17 W 46	N 13 W 54	S 78 E 50	S 54 W 38	S 02 W 45	N 61 W 25	S 66 E 40	S 16 E 37	N 58 W 33	S 49 E 23
10	N 45 W 44	N 74 E 57	S 13 W 44	N 04 W 20	S 70 E 51	S 12 W 35	S 13 W 44	N 49 W 28	S 78 E 37	S 18 E 38	N 59 W 34	S 55 E 22
15	N 45 W 43	N 71 E 77	S 02 W 47	S 20 E 9	S 67 E 53	S 26 E 27	S 16 E 36	N 50 W 27	S 67 E 36	S 07 E 26	N 53 W 33	S 60 E 22
20	N 74 W 13	N 58 E 78	S 13 E 48	S 74 E 19	S 57 E 50	S 61 E 23	S 55 E 30	N 38 W 22	S 48 E 24	S 30 E 25	N 46 W 33	S 15 E 21
25	S 17 E 11	N 76 E 71	S 31 E 47	S 79 E 22	S 49 E 48	N 88 E 20	S 54 E 20	N 39 W 22	S 30 E 21	S 30 E 17	N 45 W 31	S 04 E 21
27½	S 44 E 14	S 81 E 70	S 36 E 47	E 21	S 43 E 45	N 83 E 21	N 83 E 11	N 43 W 21	S 05 W 22	N 16 W 10	N 23 W 24	S 20 W 22
30	S 44 E 14	N 81 E 68	S 43 E 40	S 23 E 8	S 43 E 44	N 80 E 17	N 85 E 11	N 48 W 20	S 10 W 20	S 30 E 10	N 21 W 22	S 20 W 19
	5 3^{42} a	5 7^{42} a	5 11^{44} a	5 3^{48} p	5 7^{49} p	5 11^{49} p	14 3^{39} a	14 7^{49} a	14 11^{40} a	14 3^{49} p	14 7^{48} p	14 11^{44} p
2½	N 39 W 40	S 03 E 25	S 27 W 53	N 75 W 25	S 13 E 48	S 06 W 46	S 07 E 53	0	0	S 78 E 48	N 10 E 40	N 19 E 19
5	N 53 W 46	S 21 E 29	S 09 E 55	N 53 W 25	S 49 E 55	S 08 E 45	S 11 E 52	N 43 W 11	S 51 E 19	S 55 E 47	N 19 E 39	N 05 E 34
10	N 53 W 48	S 22 E 30	S 09 W 53	S 70 W 17	S 35 E 57	S 16 E 51	S 08 E 53	N 63 W 16	S 53 E 18	S 48 E 46	N 24 E 43	N 06 W 28
15	N 47 W 49	S 28 E 52	S 10 E 50	S 02 W 33	S 33 E 55	S 45 E 49	S 07 W 48	N 74 W 15	S 68 E 17	S 29 E 46	N 20 E 41	N 32 W 26
20	N 47 W 47	S 31 E 49	S 16 E 49	S 21 E 43	S 31 E 63	S 48 E 45	S 05 W 46	N 74 W 15	S 69 E 9	S 45 E 46	N 06 W 36	N 59 W 21
25	N 28 W 39	S 28 E 42	S 26 E 50	S 32 E 45	S 36 E 60	S 36 E 39	S 08 W 43	N 43 W 15	S 35 E 14	S 09 W 28	N 28 W 43	N 62 W 18
27½	N 06 W 33	S 14 E 44	S 34 E 45	S 38 E 51	S 33 E 59	S 33 E 36	S 02 E 37	N 31 W 17	S 25 E 17	S 20 E 25	N 36 W 49	S 60 W 24
30	N 15 E 31	S 24 E 43	S 37 E 43	S 38 E 49	S 35 E 64	S 39 E 31	S 14 E 37	N 30 W 17	S 14 E 17	S 20 E 15	N 42 W 54	S 60 W 24
	6 3^{40} a	6 7^{45} a	6 11^{42} a	6 3^{48} p	6 7^{42} p	6 11^{49} p	15 3^{45} a	15 7^{42} a	15 11^{45} a	15 3^{42} p	15 7^{49} p	15 11^{48} p
2½	N 63 W 42	S 73 E 33	S 01 W 70	N 50 W 67	N 42 E 46	S 15 E 59	S 43 E 36	N 03 W 34	N 08 W 32	S 63 E 25	N 07 E 46	N 13 W 67
5	N 21 W 59	S 80 E 39	S 04 E 79	N 36 W 66	N 48 E 52	S 23 E 47	S 62 E 48	N 02 E 29	N 03 E 38	N 79 E 33	N 47 W 59	N 27 W 66
10	N 20 W 46	S 80 E 45	S 18 E 66	N 48 W 55	N 60 E 30	S 21 E 46	S 78 E 46	N 04 E 33	N 28 W 35	S 66 E 32	N 24 W 57	N 20 W 68
15	N 26 W 37	S 56 E 30	S 35 E 53	N 46 W 23	S 16 E 17	S 04 E 28	S 83 E 46	N 13 E 26	N 08 W 36	S 58 E 27	N 06 W 60	N 40 W 71
20	N 05 E 27	S 32 E 21	S 41 E 52	N 44 E 30	S 17 W 12	S 05 W 27	S 85 E 33	N 04 W 28	N 02 W 32	S 86 E 29	N 25 W 54	N 50 W 69
25	N 13 E 18	S 32 E 20	S 45 E 25	N 45 E 28	S 10 W 19	S 67 E 19	S 42 E 32	N 22 W 31	N 45 W 34	S 60 E 30	N 07 W 41	N 34 W 61
27½	N 29 E 18	S 18 E 21	S 55 E 32	N 16 E 24	S 10 W 19	N 13 W 12	S 21 E 44	N 11 W 30	N 43 W 32	S 16 E 31	N 29 W 52	N 26 W 57
30	N 81 E 15	S 18 E 20	S 65 E 23	N 48 E 24	S 05 W 19	N 68 E 32	20 E 51	N 23 W 24	N 38 W 23	S 08 E 22	N 04 E 40	N 23 W 52
	7 3^{48} a	7 7^{45} a	7 11^{46} a	7 3^{49} p	7 7^{45} p	7 11^{39} p	16 3^{39} a	16 7^{45} a	16 11^{48} a	16 3^{49} p	16 7^{49} p	16 11^{40} p
2½	N 65 W 80	S 85 W 40	S 17 W 70	S 72 W 46	S 09 E 37	S 02 W 80	S 31 E 24	N 09 E 24	N 03 W 59	N 57 E 25	N 07 E 33	N 41 W 48
5	N 60 W 78	N 63 W 45	S 07 W 69	S 59 W 42	S 02 E 39	S 07 E 84	S 20 E 34	N 08 E 29	N 32 W 63	N 86 E 25	N 24 E 25	N 29 W 80
10	N 58 W 75	N 54 W 41	S 12 E 67	S 80 W 22	S 19 E 45	S 07 E 75	S 23 E 32	N 50 E 28	N 33 W 68	S 87 E 24	N 40 E 24	N 41 W 77
15	N 59 W 68	S 54 E 30	S 26 E 75	S 05 W 27	S 27 E 50	S 04 E 72	S 22 E 29	N 50 E 21	N 37 W 65	S 50 E 28	N 40 E 23	N 32 W 73
20	N 54 W 66	S 31 E 44	S 31 E 72	S 35 E 37	S 36 E 48	S 20 E 70	S 28 E 25	N 59 E 21	N 34 W 56	S 47 E 27	N 39 E 30	N 30 W 75
25	N 50 W 64	S 15 E 43	S 24 E 69	S 62 E 40	S 33 E 46	S 45 E 69	S 29 E 22	N 08 E 26	N 40 W 55	S 50 E 30	N 68 E 22	N 30 W 68
27½	N 47 W 62	S 05 E 44	S 32 E 57	S 63 E 39	S 31 E 46	S 43 E 64	S 26 E 27	N 03 E 26	N 19 W 54	S 56 E 30	N 56 E 30	N 24 W 69
30	N 47 W 61	S 03 E 38	S 33 E 57	S 64 E 36	S 29 E 45	S 44 E 62	S 24 E 24	N 04 W 26	N 26 W 47	S 45 E 30	N 39 E 30	N 22 W 68
	8 3^{49} a	8 7^{49} a	8 11^{49} a	8 3^{45} p	8 7^{44} p	8 11^{46} p	17 3^{48} a	17 7^{44} a	17 11^{45} a	17 3^{50} p	17 7^{45} p	17 11^{40} p
2½	S 75 W 36	N 23 E 16	S 13 E 55	N 35 W 40	N 18 W 38	S 53 E 59	N 32 E 21	S 46 E 20	N 13 W 33	0	S 31 E 40	N 54 E 11
5	N 89 W 36	N 17 E 34	S 11 E 69	N 35 W 45	N 20 W 39	S 53 E 59	N 35 W 21	S 36 E 11	N 31 W 37	N 39 E 7	S 20 E 32	N 14 W 24
10	N 77 W 35	N 08 E 23	S 24 E 73	N 56 W 44	N 41 W 37	S 32 E 56	N 26 W 28	S 19 E 20	N 28 W 36	N 44 E 11	S 23 E 31	N 36 W 29
15	E 6	N 10 W 13	S 29 E 53	N 58 W 49	N 66 W 26	S 21 E 44	N 16 W 36	S 12 E 20	N 20 W 30	N 40 E 11	S 22 E 38	N 31 W 28
20	N 84 E 26	N 51 W 14	S 38 E 33	N 45 W 42	N 65 W 20	S 20 E 38	N 31 W 35	S 25 E 16	N 26 W 30	N 74 E 13	S 22 E 37	N 28 W 33
25	N 87 E 25	N 63 W 14	S 36 E 37	N 16 W 30	S 89 W 13	S 05 E 31	N 58 W 30	S 26 E 14	N 25 W 33	S 46 E 9	S 21 E 33	N 27 W 33
27½	N 82 E 28	N 60 W 14	S 37 E 32	N 16 W 30	S 70 W 15	S 24	N 53 W 30	S 16 E 17	N 28 W 36	S 41 E 9	S 15 E 29	N 27 W 31
30	N 77 E 33	N 61 W 12	S 38 E 32	N 14 W 30	S 65 W 19	S 13	N 43 W 24	S 17 E 16	N 24 W 26	S 58 W 2	S 10 E 28	N 25 W 31
	9 3^{39} a	9 7^{49} a	9 11^{45} a	9 3^{49} p	9 7^{49} p	9 11^{45} p	18 3^{49} a	18 7^{44} a	18 11^{45} a	18 3^{46} p	18 7^{49} p	18 11^{50} p
2½	N 48 W 33	N 18 W 49	S 38 E 55	S 77 W 25	N 15 E 40	S 23 E 76	N 21 W 32	S 61 E 34	N 13 E 19	N 23 E 46	S 55 E 19	N 05 W 40
5	N 48 W 43	N 27 W 52	S 38 E 54	S 80 W 30	N 14 W 39	S 11 E 81	N 29 W 42	S 50 E 39	N 15 W 16	N 17 W 46	S 81 E 20	N 03 W 39
10	N 50 W 38	N 34 W 50	S 27 E 57	N 60 W 28	N 30 W 45	S 13 E 79	N 26 W 35	S 35 E 43	N 10 W 21	N 16 W 51	S 70 E 29	N 08 W 44
15	N 31 W 37	N 38 W 48	S 17 E 55	N 38 W 29	N 04 W 39	S 16 E 61	N 34 W 35	S 43 E 46	N 13 W 20	N 19 W 43	S 74 E 27	N 06 W 44
20	N 14 W 34	N 26 W 16	S 13 E 35	N 07 E 35	N 16 W 32	S 17 E 61	N 63 W 29	S 34 E 46	N 11 W 22	N 40 W 35	S 73 E 30	N 15 W 43
25	N 09 W 31	N 74 W 12	S 09 E 34	N 10 E 38	N 47 W 28	S 25 E 52	N 40 W 28	S 23 E 48	N 06 W 25	N 42 W 34	S 80 E 31	N 21 W 45
27½	N 08 W 28	N 71 W 12	S 05 E 29	N 10 E 38	N 59 W 22	S 24 E 46	N 60 W 25	S 26 E 46	N 09 W 25	N 50 W 41	S 78 E 27	N 16 W 38
30	N 07 W 32	N 84 W 13	S 01 W 36	N 20 E 38	S 89 W 21	S 40 E 36	N 72 W 26	S 32 E 48	N 08 W 23	N 49 W 40	S 80 E 27	N 28 W 33
	10 3^{45} a	10 7^{44} a	10 11^{49} a	10 3^{48} p	10 7^{49} p	10 11^{48} p	19 3^{38} a	19 7^{49} a	19 11^{44} a	19 3^{45} p	19 7^{44} p	19 11^{39} p
2½	S 16 E 25	N 43 W 25	S 01 E 76	S 13 E 64	S 22 W 53	S 10 E 151	N 16 W 80	N 45 E 46	N 05 W 40	N 06 W 70	N 47 E 37	N 17 E 59
5	N 57 W 31	N 51 W 33	S 16 E 74	S 23 W 78	S 27 W 52	S 18 E 131	N 35 W 79	N 42 E 45	N 03 W 39	N 26 W 79	N 60 E 39	N 30 W 68
10	N 57 W 31	N 56 W 31	S 24 E 72	S 40 W 73	S 27 W 50	S 07 E 139	N 35 W 76	S 70 E 23	N 05 W 44	N 36 W 80	N 53 E 35	N 23 W 67
15	N 74 W 31	N 43 W 45	S 12 E 61	S 52 W 61	S 40 W 51	S 14 E 108	N 21 W 73	S 84 E 31	N 07 W 45	N 34 W 77	N 78 E 42	N 09 W 60
20	S 70 E 6	N 26 W 44	S 24 E 59	S 30 W 49	S 42 W 46	S 21 E 97	N 40 W 66	S 84 E 30	N 09 W 44	N 34 W 74	N 86 E 25	N 14 W 62
25	N 05 E 24	N 17 W 35	S 31 E 47	N 30 E 35	S 16 W 38	S 41 E 81	N 40 W 57	S 28 E 20	N 04 W 46	N 27 W 69	N 49 E 19	N 18 W 56
27½	N 04 W 31	N 22 W 34	S 24 E 46	N 60 E 57	S 20 W 37	S 77 E 76	N 39 W 56	S 35 E 23	N 09 W 46	N 40 W 68	N 54 E 19	N 25 W 59
30	N 19 E 32	N 32 W 34	S 30 E 46	N 79 E 48	S 20 W 37	E 72	N 54 W 52	S 80 E 20	N 11 W 45	N 40 W 62	S 64 W 12	N 18 W 50
	11 3^{40} a	11 7^{45} a	11 11^{44} a	11 3^{49} p	11 7^{49} p	11 11^{49} p	20 3^{50} a	20 7^{44} a	20 11^{49} a	20 3^{50} p	20 7^{45} p	20 11^{36} p
2½	S 06 W 74	S 07 W 42	S 17 E 85	S 32 W 40	N 69 W 25	S 13 E 80	N 05 E 59	S 73 E 14	N 82 E 25	N 30 W 45	S 78 E 19	S 4 E [illegible]
5	S 24 W 79	S 17 W 48	S 23 E 74	S 27 W 39	N 63 W 33	S 18 E 79	N 18 W 69	S 43 E 19	N 88 E 25	N 28 W 48	S 72 E 30	S 34 E [illegible]
10	S 10 W 75	S 49 W 47	S 19 E 72	S 23 W 38	N 39 W 27	S 26 E 76	N 40 W 78	S 69 E 20	N 88 E 26	N 20 W 50	S 47 E 28	S 32 E 26
15	S 20 W 71	S 52 W 46	S 16 E 74	S 18 W 40	W 13	S 07 E 77	N 44 W 75	N 74 E 18	N 52 E 23	N 17 W 49	S 58 E 35	S [illegible] E 30
20	S 04 W 53	S 49 W 44	S 29 E 73	S 42 E 41	S 02 W 26	S 20 E 74	N 62 W 73	N 70 E 17	N 15 W 21	N 23 W 49	N 60 E 27	S 30 E 20
25	S 17 E 44	S 14 W 55	S 40 E 64	S 40 E 44	S 19 E 26	S 18 E 66	N 61 W 66	N 88 E 17	N 27 W 33	N 26 W 48	N 76 E 20	S 39 E 14
27½	S 74 E 55	S 20 W 54	S 51 E 64	S 56 E 44	S 28 E 34	S 18 E 66	N 56 W 57	N 55 E 14	N 01 E 31	N 32 W 45	S 83 E 13	S 31 E 9
30	N 81 E 61	S 20 W 53	S 51 E 63	S 83 E 45	S 45 E 41	S 11 E 62	N 51 W 57	N 71 E 12	N 42 W 24	N 28 W 44	S 46 E 14	N 33 W 7
	12 3^{48} a	12 7^{45} a	12 11^{40} a	12 3^{48} p	12 7^{45} p	12 11^{39} p	21 3^{43} a	21 7^{45} a	21 11^{44} a	21 3^{49} p	21 7^{49} p	21 11^{49} p
2½	S 11 E 53	S 22 W 11	S 43 E 59	S 03 E 46	N 23 W 37	S 25 E 25	N 08 W 40	S 43 E 11	S 31 E 37	N 36 W 30	N 54 E 13	S [illegible] E [illegible]
5	S 23 E 45	N 23 W 25	S 43 E 69	S 23 E 46	N 17 E 39	S 24 E 40	N 34 W 47	S 47 E 19	S 27 E 38	N 48 W 34	N 56 E 11	S 26 E 58
10	S 30 E 44	N 55 W 28	S 46 E 67	S 16 E 37	N 18 E 31	S 18 E 45	N 44 W 50	S 48 E 18	S 30 E 39	N 51 W 27	E 11	S 34 E 61
15	S 22 E 43	S 84 W 21	S 33 E 71	S 02 E 44	N 06 W 22	S 18 E 50	N 41 W 52	N 47 W 3	S 26 E 37	N 42 W 26	S 89 E 7	S 30 E 44
20	S 33 E 43	N 64 W 20	S 41 E 72	S 16 E 38	N 09 W 21	S 46 E 46	N 40 W 51	S 20 E 18	S 30 E 34	N 42 W 26	S 36 E 7	S 31 E 43
25	S 50 E 45	N 26 W 33	S 37 E 59	S 27 E 25	N 18 W 21	S 35 E 40	N 40 W 48	S 24 E 17	S 20 E 33	N 43 W 25	S 04 W 7	S 47 E 40
27½	S 10 E 40	N 16 W 32	S 44 E 43	S 80 E 17	N 37 W 37	S 14 E 25	N 50 W 46	S 21 E 21	S 32 E 31	N 42 W 26	S 13 E 11	S 47 E 34
30	S 28 E 36	N 07 W 29	S 44 E 42	S 27 E 12	N 54 W 37	S 19 E 14	N 54 W 44	S 03 E 22	S 35 E 31	N 29 W 26	S 29 E 14	S 48 E 28

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

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Meter	22 3h44m a	22 7h45m a	22 11h44m a	22 3h50m p	22 7h45m p	22 11h35m p	1 3h46m a	1 7h45m a	1 11h49m a	1 3h49m p	1 7h44m p	1 11h45m p
2½	N 41 W 30	N 45 E 11	S 18 E 55	N 38 W 35	N 38 W 19	S 33 E 59	N 20 W 21	S 23 E 33	N 51 W 30	N 12 W 33	S 64 E 37	N 53 W 33
5	N 38 W 31	N 37 E 11	S 15 E 58	N 26 W 34	N 18 W 19	S 39 E 58	N 15 W 16	S 26 E 44	N 70 W 34	N 21 W 30	S 65 E 37	S 53 E 2
10	N 34 W 35	N 35 E 7	S 23 E 63	N 28 W 24	N 17 W 18	S 32 E 56	S 10 E 2	S 24 E 45	S 70 W 38	N 27 E 15	S 55 E 21	N 29 W 24
15	N 34 W 38	N 46 E 7	S 26 E 63	N 28 W 26	N 42 W 14	S 32 E 59	S 17 E 6	S 12 E 44	S 75 W 36	S 09 E 3	S 58 E 23	N 24 W 45
20	N 31 W 37	N 53 E 8	S 26 E 59	N 22 W 26	N 57 W 9	S 32 E 29	S 21 W 10	S 01 W 35	N 10 W 38	S 09 E 3	S 26 E 19	N 04 E 51
25	N 40 W 40	S 45 W 2	S 24 E 46	N 22 W 27	N 70 W 9	S 33 E 48	S 23 W 16	S 04 W 27	N 16 E 37	S 09 E 3	S 38 E 19	N 20 E 50
27½	N 35 W 41	S 45 W 2	S 24 E 34	N 24 W 22	N 60 W 9	S 46 E 52	S 24 W 17	S 15 E 17	N 13 E 33	S 09 E 3	S 36 E 13	N 10 E 49
30	N 32 W 44	S 45 W 2	S 32 E 19	N 23 W 24	S 25 E 4	S 40 E 44	S 24 W 19	S 24 E 17	N 03 E 32	S 09 E 3	S 25 E 14	N 09 E 42

Meter	23 3h49m a	23 7h44m a	23 11h39m a	23 3h49m p	23 7h48m p	23 11h45m p	2 3h40m a	2 7h45m a	2 11h49m a	2 3h48m p	2 7h44m p	2 11h40m p
2½	N 61 W 33	N 40 W 31	S 35 E 59	N 70 W 25	N 48 W 25	S 18 E 59	0	S 56 E 23	S 69 W 16	N 43 W 25	S 50 E 40	N 33 W 11
5	N 40 W 33	N 42 W 36	S 35 E 52	N 72 W 30	N 48 W 29	S 26 E 69	N 50 W 30	S 38 E 36	S 39 W 16	N 43 W 33	S 54 E 46	N 14
10	N 40 W 29	N 43 W 38	S 35 E 51	N 62 W 30	N 38 W 24	S 26 E 67	N 47 W 38	S 30 E 41	S 74 W 23	N 62 W 36	S 50 E 51	N 13 W 20
15	N 39 W 22	N 42 W 42	S 34 E 46	N 55 W 36	N 54 W 20	S 36 E 65	N 40 W 21	S 26 E 47	S 89 W 25	N 36 W 22	S 28 E 43	N 13 W 23
20	N 39 W 22	N 39 W 34	S 34 E 45	N 62 W 37	N 61 W 18	S 36 E 62	N 38 W 28	S 29 E 57	N 17 W 20	N 07 E 20	S 27 E 42	N 34 W 31
25	N 37 W 21	N 40 W 27	S 32 E 40	N 60 W 36	N 60 W 17	S 32 E 49	N 26 W 28	S 27 E 51	N 09 W 29	N 12 E 12	S 33 E 40	N 23 W 35
27½	N 19 W 21	N 39 W 19	S 32 E 36	N 62 W 36	N 70 W 12	S 31 E 36	N 19 W 20	S 20 E 65	N 04 W 32	N 06 E 12	S 30 E 33	N 23 W 36
30	N 26 W 19	N 39 W 12	S 32 E 34	N 64 W 32	N 76 W 12	S 24 E 34	N 11 W 20	S 10 E 43	N 02 W 22	S 44 E 7	S 35 E 32	N 19 W 38

Meter	24 3h43m a	24 7h49m a	24 11h48m a	24 3h49m p	24 7h44m p	24 11h40m p	3 3h49m a	3 7h42m a	3 11h39m a	3 3h45m p	3 8h49m p	3 11h46m p
2½	S 64 W 19	N 05 W 25	S 26 E 55	S 62 W 30	N 36 W 31	S 31 E 50	N 16 W 21	S 38 E 40	S 21 E 24	N 41 W 19	S 61 E 40	0
5	S 80 W 19	N 35 W 33	S 27 E 58	S 74 W 23	N 37 W 34	S 31 E 52	N 51 W 40	S 38 E 50	S 21 E 23	N 51 W 24	S 50 E 53	0
10	N 56 W 14	N 31 W 32	S 29 E 57	W 13	N 42 W 33	S 31 E 50	N 56 W 38	S 26 E 51	S 20 E 25	N 54 W 28	S 40 E 50	0
15	N 40 W 10	N 28 W 26	S 27 E 61	N 87 W 13	N 40 W 30	S 30 E 48	N 42 W 37	S 27 E 52	S 13 E 24	N 42 W 32	S 35 E 53	0
20	N 29 W 10	N 34 W 26	S 24 E 50	N 20 W 10	N 47 W 29	S 36 E 45	N 34 W 34	S 19 E 47	S 30 W 20	N 31 W 26	S 31 E 52	0
25	N 27 W 10	N 34 W 25	S 24 E 47	N 20 W 10	N 49 W 24	S 36 E 43	N 18 W 23	S 21 E 45	S 38 W 16	N 20 W 20	S 31 E 50	0
27½	N 27 W 10	N 28 W 25	S 28 E 45	N 15 W 14	N 46 W 20	S 36 E 41	N 20 W 15	S 20 E 41	S 31 W 16	N 20 W 14	S 30 E 48	0
30	N 11 W 8	N 40 W 26	S 31 E 36	N 14 W 14	N 48 W 17	S 36 E 38	N 36 W 15	S 21 E 35	S 44 W 16	N 50 W 14	S 28 E 44	N 31 W 11

Meter	25 3h42m a	25 7h46m a	25 11h49m a	25 3h48m p	25 7h49m p	25 11h38m p	4 3h39m a	4 7h49m a	4 11h44m a	4 3h49m p	4 7h42m p	4 11h49m p
2½	S 51 W 19	N 30 W 40	S 21 E 23	N 31 W 7	N 33 W 48	S 89 E 21	N 40 W 40	S 23 E 16	S 42 W 9	N 71 W 20	S 02 W 21	N 41 W 11
5	S 21 W 19	N 39 W 39	S 43 E 42	N 32 W 7	N 33 W 47	S 86 E 25	N 46 W 39	S 43 E 33	S 13 E 13	N 60 W 21	S 44 E 31	S 32 W 19
10	S 20 W 10	N 39 W 35	S 43 E 47	0	N 35 W 40	S 74 E 30	N 35 W 31	S 43 E 45	S 18 E 20	N 58 W 21	S 52 E 42	N 45 E 14
15	N 30 E 3	N 34 W 34	S 43 E 46	0	N 36 W 41	S 73 E 30	N 26 W 30	S 38 E 48	S 14 W 18	N 51 W 26	S 46 E 48	S 29 E 14
20	N 30 E 3	N 30 W 32	S 43 E 45	N 27 W 7	N 37 W 38	S 70 E 33	N 20 W 27	S 32 E 49	S 12 E 6	N 30 W 23	S 40 E 49	S 37 E 14
25	N 30 E 3	N 45 W 29	S 34 E 32	N 30 W 11	N 37 W 36	S 63 E 37	N 27 W 24	S 24 E 47	S 11 E 4	N 12 W 20	S 43 E 34	N 70 E 19
27½	N 30 E 3	N 44 W 29	S 25 E 32	N 29 W 16	N 36 W 39	S 53 E 43	N 30 W 23	S 20 E 40	S 23 E 4	N 08 W 13	S 17 E 34	S 80 E 12
30	N 01 E 12	N 43 W 26	S 23 E 31	N 31 W 18	N 37 W 31	S 54 E 45	N 24 W 16	S 21 E 32	N 04 W 4	N 11 W 11	S 39 E 27	N 70 E 10

Meter	26 3h38m a	26 7h45m a	26 11h38m a	26 3h49m p	26 7h39m p	26 11h49m p	5 3h45m a	5 7h44m a	5 11h49m a	5 3h44m p	5 7h49m p	5 11h39m p
2½	S 35 E 9	N 23 W 59	S 63 E 25	N 37 E 24	N 20 W 64	S 11 E 19	N 45 W 40	0	S 82 W 11	N 38 W 80	S 07 W 33	S 04 W 40
5	S 49 E 7	N 15 W 47	N 77 E 25	N 07 E 34	N 32 W 69	S 01 E 34	N 45 W 39	S 41 E 19	S 71 E 19	N 33 W 51	S 39 E 40	S 23 E 46
10	S 49 E 9	N 07 W 46	N 80 E 24	N 10 W 33	N 18 W 60	S 06 E 33	N 43 W 45	S 43 E 34	S 25 E 29	N 26 W 56	S 17 E 38	S 21 E 51
15	S 89 W 6	N 04 E 56	S 78 E 27	N 08 W 32	N 23 W 58	S 08 E 33	N 35 W 44	S 60 E 38	S 32 E 33	N 40 W 43	S 23 E 44	S 13 E 52
20	S 38 W 7	N 44 W 56	S 71 E 31	N 43 W 36	N 47 W 57	S 07 E 33	N 28 W 44	S 46 E 36	S 05 E 30	N 40 W 42	S 28 E 49	S 18 E 47
25	N 09 W 1	N 30 W 49	S 15 E 29	N 36 W 35	N 46 W 51	S 21 E 32	N 20 W 47	S 28 E 31	S 30 E 20	N 40 W 28	S 16 E 47	S 20 E 46
27½	N 09 W 6	N 20 W 29	S 24 E 20	N 22 W 34	N 45 W 54	S 09 E 34	N 07 W 40	S 14 E 28	S 20 E 20	N 47 W 34	S 10 E 40	S 16 E 45
30	N 09 W 1	N 16 W 28	S 25 E 19	N 31 W 34	N 43 W 49	S 04 E 33	N 36 W 29	S 13 E 30	N 60 E 15	N 43 W 28	S 10 E 46	S 13 E 44

Meter	27 3h44m a	27 7h49m a	27 11h45m a	27 3h44m p	27 7h46m p	27 11h44m p	6 3h49m a	6 7h45m a	6 11h39m a	6 3h46m p	6 7h44m p	6 11h49m p
2½	S 01 E 50	N 09 W 33	N 23 E 24	S 42 E 33	N 31 W 48	N 34 W 24	N 68 W 25	S 12 W 48	S 17 W 36	N 46 W 59	S 16 E 36	S 13 E 67
5	S 03 E 52	N 05 W 48	N 40 E 23	S 21 E 35	N 33 W 46	N 10 W 19	N 40 W 25	S 34 E 59	S 34 E 59	N 46 W 58	S 26 E 70	S 29 E 66
10	S 11 E 50	N 04 W 39	S 79 E 23	S 23 E 38	N 21 W 45	S 26 E 2	N 42 W 24	S 30 E 68	S 27 E 78	N 58 W 45	S 49 E 68	S 28 E 73
15	S 07 E 44	N 10 W 32	S 55 E 26	S 25 E 37	N 23 W 44	S 26 E 2	N 44 W 20	S 25 E 65	S 29 E 75	N 54 W 18	S 27 E 54	S 20 E 79
20	S 05 W 42	N 08 W 23	S 42 E 28	S 30 E 30	N 30 W 37	S 26 E 2	N 32 W 16	S 36 E 74	S 20 E 72	S 17 E 27	S 53 E 53	S 29 E 76
25	S 15 E 38	N 08 W 23	S 29 E 32	S 27 E 20	N 26 W 32	S 35 W 15	N 34 W 13	S 36 E 71	S 22 E 70	S 54 E 10	S 67 E 58	S 30 E 64
27½	S 18 E 37	N 10 W 24	S 30 E 33	S 40 E 16	N 30 W 25	S 39 W 19	S 16 W 22	S 43 E 70	S 35 E 73	S 41 E 41	S 67 E 57	S 27 E 64
30	S 12 E 31	N 09 W 20	S 32 E 32	S 59 E 14	N 32 W 25	S 21 W 20	S 04 W 26	S 27 E 68	S 25 E 71	S 17 E 51	S 62 E 57	S 20 E 63

Meter	28 3h49m a	28 7h42m a	28 11h49m a	28 3h45m p	28 7h44m p	28 11h45m p	7 3h38m a	7 7h49m a	7 11h49m a	7 3h45m p	7 7h45m p	7 11h38m p
2½	S 13 W 33	N 31 W 31	N 05 W 26	S 41 E 22	N 38 W 43	N 75 W 19	N 23 W 33	S 82 W 33	S 73 E 36	N 33 W 40	N 53 W 40	S 08 E 36
5	S 36 E 40	N 32 W 34	N 07 W 29	S 55 E 24	N 29 W 46	N 75 W 16	N 18 W 39	S 24 E 31	S 27 E 59	N 29 W 46	N 56 W 24	S 02 E 41
10	S 45 E 45	N 24 W 34	N 07 W 31	S 65 E 23	N 25 W 44	N 75 W 15	N 13 W 36	N 17 E 02	S 10 E 57	N 30 W 51	N 37 W 23	S 14 E 52
15	S 33 E 44	N 28 W 38	N 03 W 21	S 61 E 22	N 23 W 44	S 83 W 15	N 11 W 30	S 50 E 20	S 18 E 44	N 26 W 49	N 43 W 23	S 27 E 46
20	S 33 E 39	N 31 W 37	N 15 W 18	S 38 E 16	N 22 W 43	S 83 W 9	N 07 W 37	S 48 E 32	S 29 E 54	N 25 W 47	N 48 W 23	S 28 E 33
25	S 17 E 34	N 37 W 36	N 45 W 12	S 38 E 13	N 16 W 43	N 84 W 17	N 07 W 36	S 46 E 27	S 35 E 57	N 28 W 46	N 79 W 12	S 22 E 39
27½	S 20 E 24	N 27 W 39	N 48 W 8	S 14 E 7	N 19 W 43	N 86 W 17	N 11 W 32	S 49 E 23	S 22 E 63	N 34 W 45	N 83 W 22	S 12 E 50
30	S 40 E 17	N 27 W 38	S 76 W 7	S 05 E 8	N 19 W 41	N 76 W 16	N 14 W 27	S 68 E 20	S 55 E 63	N 38 W 44	N 83 W 22	S 34 E 42

Meter	29 3h38m a	29 7h49m a	29 11h49m a	29 3h49m p	29 7h44m p	29 11h44m p	8 3h49m a	8 7h38m a	8 11h45m a	8 3h49m p	8 7h49m p	8 11h45m p
2½	S 18 E 66	S 21 E 11	0	S 46 E 34	N 05 E 19	N 55 W 43	N 46 W 70	N 43 W 64	S 28 E 19	N 23 W 80	N 38 W 40	S 55 E 33
5	S 17 E 69	S 12 W 16	N 45 W 7	S 56 E 37	N 04 E 21	N 53 W 46	N 43 W 69	N 30 W 69	S 15 E 19	N 20 W 78	N 40 W 53	S 44 E 39
10	S 17 E 77	S 01 W 16	N 34 W 11	S 60 E 39	N 10 W 20	N 34 W 37	N 21 W 77	N 38 W 56	S 14 E 18	N 20 W 75	N 16 W 34	S 16 E 45
15	S 17 E 74	N 10 E 2	N 36 W 7	S 54 E 38	N 17 W 22	N 29 W 26	N 11 W 74	N 34 W 54	S 08 W 29	N 26 W 77	N 16 W 32	S 06 E 46
20	S 17 E 65	N 10 E 2	S 37 E 1	S 43 E 34	N 04 W 23	N 26 W 19	N 32 W 60	N 27 W 28	S 13 W 33	N 27 W 59	N 30 W 31	S 06 E 49
25	S 17 E 58	N 64 E 12	S 37 E 1	S 38 E 33	N 07 W 25	N 20 W 8	N 19 W 58	N 03 W 29	S 14 W 36	N 20 W 51	N 15 W 35	S 18 E 47
27½	S 23 E 53	N 88 E 11	S 37 E 1	S 34 E 29	N 10 W 26	N 33 W 13	N 26 W 69	N 10 W 28	S 08 W 26	N 16 W 56	N 05 W 35	S 20 E 39
30	S 20 E 50	N 78 E 11	S 37 E 1	S 36 E 27	N 06 W 30	N 36 W 8	N 28 W 67	N 10 W 33	S 31 W 20	N 31 W 44	N 47 W 34	S 28 E 39

Meter	30 3h45m a	30 7h32m a	30 11h49m a	30 3h41m p	30 7h49m p	30 11h40m p	9 3h38m a	9 7h49m a	9 11h45m a	9 3h49m p	9 7h40m p	9 11h49m p
2½	0	0	N 35 W 30	N 54 E 24	S 80 E 20	N 31 W 37	N 37 W 48	N 31 W 33	S 33 E 36	N 43 W 25	N 33 W 25	S 28 E 59
5	S 51 E 19	S 09 E 29	N 14 W 33	N 75 E 23	S 78 E 14	N 34 W 39	N 43 W 47	N 38 W 37	S 42 E 48	N 28 W 29	N 11 W 25	S 33 E 79
10	S 52 E 23	S 05 E 32	N 18 W 32	S 83 E 22	N 70 E 10	N 33 W 38	N 43 W 46	N 36 W 38	S 38 E 68	N 36 W 28	N 33 W 39	S 38 E 85
15	S 52 E 28	S 04 E 31	N 32 W 21	S 48 E 22	N 72 E 6	N 35 W 42	N 26 W 50	N 27 W 37	S 43 E 66	N 35 W 23	N 36 W 24	S 39 E 80
20	S 39 E 27	S 20 E 24	N 19 W 11	S 26 E 25	N 44 E 10	N 36 W 42	N 32 W 44	N 33 W 29	S 40 E 74	N 34 W 18	N 10 W 22	S 32 E 79
25	S 40 E 30	S 26 E 21	N 40 W 6	S 36 E 25	N 22 E 10	N 34 W 44	N 40 W 35	N 30 W 29	S 27 E 71	N 34 W 17	N 02 E 12	S 35 E 76
27½	S 34 E 32	S 25 E 18	N 09 E 6	S 37 E 24	N 25 E 15	N 32 W 42	N 30 W 30	N 21 W 28	S 16 E 58	S 16 W 21	N 05 W 11	S 41 E 72
30	S 05 E 26	S 36 E 16	N 25 W 4	S 30 E 23	N 26 E 15	N 32 W 38	N 21 W 35	N 21 W 30	S 25 E 46	N 41 W 17	N 05 W 5	S 28 E 71

E. g. N 66 W 40 means current toward N 66 W (true) o veflocity 40 cm/sec.

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Meter	10 3⁴⁵ a	10 7⁴⁵ a	10 11⁴⁹ a	10 3¹⁸ p	10 7⁴⁹ p	10 11³⁹ p	19 3³⁸ a	19 7⁴⁴ a	19 11⁴⁵ a	19 3⁴⁹ p	19 7⁴⁴ p	19 11⁴⁸ p
2½	N 33 W 25	N 53 W 42	S 27 E 26	N 33 W 40	N 33 W 40	S 88 E 33	N 07 E 23	S 74 E 45	S 38 E 25	N 61 W 48	S 48 E 40	S 41 E 43
5	S 33 E 1	N 35 W 55	S 38 E 44	N 44 W 32	N 25 W 53	S 59 E 39	N 11 W 42	S 73 E 50	S 28 E 33	N 55 W 50	S 48 E 53	S 26 E 49
10	N 35 W 25	N 30 W 57	S 43 E 47	N 25 W 36	N 27 W 53	S 52 E 31	N 08 W 47	S 74 E 46	S 23 E 39	N 63 W 53	S 42 E 50	S 30 E 51
15	N 38 W 24	N 27 W 49	S 44 E 53	N 30 W 41	N 20 W 51	S 39 E 44	N 13 W 68	S 74 E 45	S 29 E 37	N 55 W 60	S 40 E 35	S 16 E 49
20	N 39 W 23	N 21 W 43	S 40 E 53	N 27 W 32	N 30 W 46	S 33 E 44	N 30 W 66	S 44 E 34	N 27 W 9	N 52 W 54	S 28 E 56	S 15 E 39
25	N 21 W 30	N 30 W 42	S 46 E 52	N 14 W 29	N 26 W 46	S 42 E 35	N 33 W 64	S 13 E 30	N 13 E 28	N 40 W 44	S 44 E 54	S 17 E 35
27½	N 12 E 31	N 04 W 30	S 46 E 51	N 14 W 29	N 22 W 45	S 27 E 34	N 35 W 73	S 50 W 21	N 16 E 35	N 11 W 34	S 30 E 42	S 75 E 34
30	N 07 E 12	N 14 W 36	S 53 E 41	N 24 W 31	N 26 W 46	S 32 E 31	N 33 W 72	N 65 W 16	N 17 E 34	N 30 E 16	S 44 E 42	N 87 E 22
	11 3⁴⁸ a	**11 7⁴⁵ a**	**11 11³⁹ a**	**11 3⁴⁹ p**	**11 7⁴⁴ p**	**11 11⁴⁹ p**	**20 3⁴⁵ a**	**20 7⁴⁴ a**	**20 11³² a**	**20 3⁴⁹ p**	**20 7³⁰ p**	**20 11³⁹ p**
2½	N 73 W 20	N 51 W 59	S 23 E 21	N 63 W 16	N 12 W 59	S 61 E 16	N 51 W 33	S 70 E 20	S 35 E 49	N 23 W 25	N 60 E 21	S 63 E 36
5	N 66 W 20	N 34 W 47	S 33 E 40	N 35 W 19	N 13 W 69	S 74 E 20	N 50 W 40	S 57 E 25	S 34 E 53	N 28 W 40	N 60 E 34	S 63 E 41
10	N 58 W 19	N 42 W 46	S 45 E 43	N 10 E 15	N 20 W 56	S 73 E 20	N 33 W 45	S 68 E 30	S 30 E 51	N 38 W 42	N 60 E 25	S 59 E 45
15	N 55 W 14	N 31 W 33	S 44 E 44	N 08 W 15	N 39 W 55	N 72 W 2	N 29 W 50	S 73 E 29	S 15 E 45	N 33 W 50	N 35 E 31	S 74 E 46
20	N 68 W 14	N 39 W 45	S 40 E 43	N 46 W 14	N 37 W 53	S 37 E 15	N 44 W 48	S 67 E 30	S 26 E 34	N 35 W 49	N 34 E 21	S 24 E 19
25	S 11 E 26	N 43 W 44	S 44 E 45	N 14 W 13	N 26 W 52	S 15 E 15	N 48 W 46	S 37 E 37	S 39 E 25	N 24 W 40	N 33 W 20	N 57 W 10
27½	S 30 E 22	N 48 W 43	S 46 E 47	N 06 E 16	N 37 W 34	S 15 E 15	N 32 W 39	S 21 E 37	S 69 E 23	N 24 W 33	S 12 E 22	N 43 E 6
30	S 27 E 20	N 51 W 43	S 36 E 39	N 04 W 22	N 39 W 25	S 08 E 15	N 29 W 38	S 33 E 44	S 66 E 23	N 03 W 15	S 20 W 26	N 51 E 17
	12 3³⁹ a	**12 7⁴⁴ a**	**12 11⁴⁵ a**	**12 3⁴⁴ p**	**12 7⁴⁵ p**	**12 11⁴⁰ p**	**21 3⁴⁹ a**	**21 7⁴⁵ a**	**21 11³⁸ a**	**21 3⁴⁵ p**	**21 7³⁹ p**	**21 11⁴⁰ p**
2½	0	N 38 W 55	N 61 E 19	S 57 E 14	N 41 W 36	N 42 W 7	N 26 W 70	N 07 E 33	S 77 E 33	N 38 W 36	N 05 W 25	S 61 E 42
5	S 35 W 11	N 42 W 54	N 66 E 24	S 50 E 21	N 33 W 41	N 11	N 27 W 79	N 07 E 32	S 50 E 33	N 45 W 48	N 13 W 30	S 54 E 48
10	S 15 E 6	N 44 W 46	N 72 E 28	S 43 E 20	N 23 W 47	0	N 41 W 72	N 03 W 32	S 54 E 34	N 46 W 58	N 15 W 39	S 48 E 62
15	S 17 W 11	N 26 W 37	N 81 E 16	S 60 E 9	N 33 W 46	0	N 20 W 80	N 21 W 38	S 52 E 34	N 45 W 57	N 15 W 31	S 50 E 65
20	N 16 E 1	N 14 W 32	S 69 W 5	N 54 E 7	N 21 W 38	S 22 W 11	N 28 W 74	N 17 W 30	S 48 E 18	N 40 W 66	N 27 W 25	S 40 E 49
25	N 16 E 1	N 22 W 32	S 69 W 5	N 09 E 8	N 22 W 32	S 20 W 16	N 24 W 76	S 08 E 9	S 27 E 10	N 21 W 61	N 62 W 19	S 42 E 41
27½	N 16 E 1	N 38 W 25	S 69 W 5	N 11 W 7	N 23 W 25	S 26 W 16	N 27 W 74	S 08 E 9	N 52 W 9	N 10 W 53	S 83 W 13	S 34 E 28
30	N 28 W 6	N 51 W 25	S 69 W 5	N 11 W 7	N 21 W 25	S 25 W 19	N 26 W 60	S 08 E 9	N 52 W 9	N 05 W 52	S 60 W 22	S 22 E 22
	13 3⁴⁹ a	**13 7⁴³ a**	**13 11⁴⁸ a**	**13 3⁴² p**	**13 7³⁸ p**	**13 11⁴⁵ p**	**22 3³⁹ a**	**22 7⁴⁸ a**	**22 11¹¹ a**	**22 3⁴⁵ p**	**22 7¹⁸ p**	**22 11⁴⁰ p**
2½	S 30 E 59	N 83 W 24	N 30 E 11	S 41 E 40	N 76 W 23	N 43 W 19	N 19 W 59	N 07 E 40	S 48 E 44	N 31 W 48	N 37 W 25	S 47 E 46
5	S 30 E 58	N 83 W 20	N 32 E 7	S 35 E 37	N 68 W 29	N 43 W 24	N 33 W 45	N 19 W 53	S 46 E 55	N 51 W 48	N 60 W 40	S 33 E 46
10	S 18 E 47	N 61 W 18	0	S 38 E 27	N 57 W 36	N 66 W 28	N 40 W 47	N 30 W 44	S 50 E 64	N 50 W 57	N 57 W 38	S 30 E 47
15	S 18 E 40	N 26 W 13	S 18 E 7	S 34 E 26	N 13 W 35	N 70 W 22	N 46 W 34	N 26 W 43	S 39 E 55	N 40 W 56	N 60 W 30	S 30 E 43
20	S 16 E 31	N 39 W 9	S 23 E 11	S 26 E 23	N 21 W 47	N 88 W 16	N 43 W 33	N 89 W 30	S 25 E 37	N 17 W 54	N 46 W 30	S 20 E 37
25	S 22 E 24	N 10 E 10	S 27 E 11	S 41 E 18	N 08 W 39	S 69 W 7	N 13 W 33	S 82 W 25	S 15 W 19	N 07 W 53	N 45 W 29	S 27 E 36
27½	S 22 E 21	N 30 E 11	S 14 E 11	S 35 E 21	N 16 W 38	S 51 W 8	N 06 W 27	S 73 W 25	S 10 E 30	N 08 W 41	N 34 W 29	S 33 E 37
30	S 22 E 21	N 30 E 11	S 01 E 14	S 42 E 12	N 14 W 33	S 57 W 17	N 08 W 29	S 67 W 26	S 20 E 29	N 09 W 40	N 32 W 29	S 14 E 35
	14 3⁴⁹ a	**14 7³⁸ a**	**14 11⁴⁴ a**	**14 3⁴⁹ p**	**14 7⁴² p**	**14 11⁴⁹ p**	**23 3⁴⁰ a**	**23 7⁴⁸ a**	**23 11¹² a**	**23 3⁴⁵ p**	**23 7¹⁸ p**	**23 11⁴⁵ p**
2½	S 32 E 80	S 79 W 56	N 67 W 31	S 38 E 59	N 76 W 25	N 68 W 55	N 28 E 25	N 23 W 25	S 58 E 49	N 32 W 25	N 06 W 29	S 33 E 40
5	S 30 E 78	S 80 W 55	N 36 W 31	S 53 E 58	N 88 W 46	N 52 W 63	N 24 W 33	N 33 W 33	S 53 E 46	N 31 W 25	N 33 W 53	S 13 E 46
10	S 33 E 80	S 76 W 57	N 09 W 9	S 45 E 56	N 70 W 38	N 33 W 55	N 13 W 32	N 38 W 27	S 48 E 48	N 34 W 24	N 50 W 56	S 44 E 45
15	S 23 E 73	S 48 W 34	S 47 E 3	S 42 E 51	N 40 W 22	N 12 W 49	N 08 W 29	N 46 W 33	S 34 E 49	N 19 W 23	N 17 W 58	S 40 E 36
20	S 14 E 70	N 74 E 16	S 47 E 3	S 40 E 43	N 03 E 21	N 13 W 43	N 13 W 24	N 44 W 30	S 34 E 48	N 25 W 22	N 43 W 46	S 29 E 35
25	S 11 E 64	N 74 E 15	S 03 W 9	S 30 E 36	N 10 E 23	N 10 E 18	N 16 W 21	N 41 W 31	S 26 E 32	N 05 W 30	N 16 W 42	S 31 E 42
27½	S 21 E 62	N 78 E 25	S 47 E 3	S 44 E 28	N 26 E 31	N 09 E 18	N 08 W 18	N 43 W 24	S 27 E 29	N 08 W 30	N 37 W 42	S 26 E 47
30	S 26 E 55	N 70 E 28	S 17 W 9	S 44 E 22	N 40 E 29	N 05 E 13	N 08 W 19	N 42 W 22	S 24 E 23	N 04 W 34	N 40 W 40	S 30 E 46
	15 3⁴⁵ a	**15 7⁴³ a**	**15 11⁴⁹ a**	**15 3⁴⁰ p**	**15 7⁴⁹ p**	**15 11³⁹ p**	**24 3⁴⁰ a**	**24 7⁴⁶ a**	**24 11¹² a**	**24 3⁴⁸ p**	**24 7¹³ p**	**24 11⁴⁹ p**
2½	S 44 E 36	S 16 W 59	N 73 W 25	S 36 E 43	S 22 W 34	N 53 W 21	S 52 W 14	N 15 W 16	N 67 E 36	N 60 W 20	N 25 W 36	S 48 E 46
5	S 41 E 59	S 20 W 58	N 33 W 29	S 88 E 50	S 27 W 38	N 48 W 33	S 52 W 14	N 28 W 33	N 77 E 46	N 19 W 21	N 33 W 46	S 38 E 52
10	S 33 E 57	S 04 W 38	N 53 W 14	S 60 E 37	S 22 W 39	N 74 W 32	S 47 W 19	N 38 W 39	N 86 E 34	N 23 W 21	N 29 W 58	S 40 E 53
15	S 20 E 55	S 11 E 28	S 50 E 4	S 24 E 30	S 18 E 26	N 67 W 27	N 55 W 11	N 47 W 45	N 72 E 34	N 21 W 24	N 22 W 56	S 40 E 48
20	S 24 E 54	S 35 E 25	S 06 E 17	S 40 E 39	S 11 E 27	N 64 W 19	N 42 W 11	N 49 W 44	N 82 E 33	N 23 W 30	N 11 W 44	S 37 E 44
25	S 19 E 52	S 59 E 26	S 35 E 17	S 43 E 38	S 42 E 20	S 62 E 7	N 44 W 10	N 43 W 28	N 77 E 30	N 31 W 30	N 15 W 52	S 30 E 43
27½	S 22 E 40	S 40 E 24	S 35 E 17	S 43 E 31	S 37 E 22	S 62 E 7	N 22 E 12	N 56 W 19	N 76 E 29	N 34 W 26	N 33 W 46	S 30 E 41
30	S 29 E 26	S 57 E 25	S 44 E 19	S 40 E 31	S 33 E 25	N 86 E 19	N 19	N 39 W 21	N 77 E 29	N 16 W 25	N 33 W 41	S 64 E 41
	16 3⁴⁹ a	**16 7⁴⁵ a**	**16 11⁴⁰ a**	**16 3⁴⁹ p**	**16 7⁵⁹ p**	**16 11⁴⁹ p**	**25 3³⁹ a**	**25 7³⁸ a**	**25 11¹² a**	**25 3⁴⁸ p**	**25 7¹⁹ p**	**25 11³⁹ p**
2½	S 31 E 37	S 02 W 67	S 58 W 19	S 81 E 19	S 36 E 74	N 75 W 29	S 01 W 29	N 50 W 24	S 59 E 33	N 67 E 17	N 24 W 40	S 78 E 11
5	S 33 E 39	S 02 W 66	S 60 W 24	S 76 E 19	S 40 E 69	N 60 W 36	S 15 W 33	N 50 W 32	S 61 E 37	N 75 E 7	N 30 W 41	S 73 E 16
10	S 18 E 38	S 01 E 73	N 32 W 19	E 34	S 49 E 60	N 44 W 34	S 12 W 36	N 60 W 38	S 54 E 38	N 75 E 7	N 39 W 39	S 73 E 18
15	S 20 E 37	S 15 E 62	N 84 W 17	S 34 E 28	S 34 E 58	N 28 W 31	S 08 W 32	N 58 W 30	S 43 E 42	N 53 E 5	N 40 W 45	S 56 E 18
20	S 14 E 49	S 13 E 59	N 84 E 4	S 09 E 28	S 37 E 40	N 05 W 28	S 06 W 25	N 77 W 20	S 34 E 37	N 54 W 7	N 34 W 46	S 55 E 20
25	S 10 E 48	S 40 E 59	N 48 W 17	S 13 E 33	S 50 E 40	N 07 E 28	S 27 E 10	S 88 W 7	S 32 E 35	N 22 W 11	N 34 W 42	S 22 E 13
27½	S 05 E 51	S 60 E 60	S 54 E 27	S 14 E 36	S 75 E 47	N 36 E 23	S 84 E 7	S 51 W 5	S 38 E 36	N 09 E 9	N 32 W 36	S 9
30	S 12 E 52	S 54 E 55	S 89 E 33	S 08 E 36	S 71 E 46	N 24 E 22	S 60 E 10	S 46 E 5	S 46 E 39	N 23 E 14	N 42 W 32	S 25 E 8
	17 3³⁹ a	**17 7⁴⁹ a**	**17 11⁴⁶ a**	**17 3⁵⁰ p**	**17 7⁴⁵ p**	**17 11³⁸ p**	**26 3⁴⁹ a**	**26 7⁴⁵ a**	**26 11³⁸ a**	**26 3⁴⁰ p**	**26 7³⁹ p**	**26 11⁴⁰ p**
2½	N 63 W 25	S 54 E 64	S 72 W 24	N 23 W 33	S 35 E 59	0	S 40 E 21	N 43 W 16	S 62 E 11	S 26 E 34	N 45 W 37	N 19 E 21
5	N 02 E 23	S 24 E 66	S 61 W 23	N 26 W 32	S 34 E 69	0	S 31 E 21	N 48 W 20	S 60 E 11	S 21 E 23	N 43 W 43	N 39 E 7
10	N 30 W 14	S 25 E 68	S 63 W 22	N 20 W 31	S 44 E 67	N 20 W 20	S 28 E 28	N 46 W 21	S 60 E 13	S 26 E 11	N 36 W 34	S 16 W 2
15	S 80 W 16	S 10 E 61	S 62 W 25	N 13 W 19	S 44 E 64	N 64 W 24	S 25 E 45	N 38 W 24	S 15 E 10	S 26 E 13	N 36 W 42	S 16 W 2
20	S 14 W 20	S 25 E 57	S 52 W 7	S 24 E 7	S 32 E 40	N 61 W 28	S 32 E 37	N 38 W 23	S 26 E 18	S 20 E 14	N 32 W 40	S 16 W 2
25	S 26 W 26	S 28 E 49	N 62 E 14	S 16 E 15	S 28 E 26	N 48 W 34	S 11 E 20	N 26 W 23	S 08 E 18	S 23 E 14	N 26 W 34	S 16 W 2
27½	S 34 W 20	S 40 E 53	N 68 E 20	S 10 E 19	S 48 E 25	N 12 E 35	S 38 E 13	N 04 W 12	S 14 E 20	S 29 E 6	N 28 W 26	S 16 W 2
30	S 48 W 15	S 44 E 48	N 64 E 26	S 08 E 19	S 50 E 19	N 39 E 38	S 52 E 14	S 38 E 6	S 26 E 25	S 74 E 5	N 30 W 22	S 32 W 10
	18 3⁴⁹ a	**18 7⁴² a**	**18 11⁴⁹ a**	**18 3⁴⁵ p**	**18 7⁴⁹ p**	**18 11⁴⁵ p**	**27 3⁴⁹ a**	**27 7⁴⁸ a**	**27 11¹⁸ a**	**27 3⁵⁰ p**	**27 7¹⁹ p**	**27 11³⁹ p**
2½	N 72 W 51	S 28 E 64	S 87 W 18	N 31 W 33	N 87 E 56	N 52 E 33	S 17 E 36	S 67 W 14	S 55 W 6	S 40 E 37	N 36 W 19	0
5	N 58 W 50	S 28 E 57	N 87 W 16	N 33 W 32	S 86 E 45	N 40 E 39	S 15 E 48	S 77 W 14	S 47 W 6	S 44 E 32	N 39 W 21	0
10	N 57 W 51	S 29 E 49	S 88 W 20	N 38 W 36	S 88 E 48	N 26 E 38	S 13 E 40	S 84 W 14	S 75 W 16	S 45 E 42	N 19 W 18	0
15	N 50 W 47	S 30 E 55	S 83 W 31	N 43 W 44	S 72 E 45	N 22 W 45	S 04 E 34	N 70 W 12	S 67 W 23	S 45 E 43	N 21 W 17	0
20	N 29 W 32	S 19 E 52	S 69 W 31	N 46 W 50	S 52 E 44	N 15 W 50	S 02 E 25	N 51 W 10	S 40 W 22	S 35 E 36	N 20 W 20	S 46 E 7
25	N 02 W 18	S 34 E 48	S 09 W 19	N 15 W 35	S 40 E 41	N 10 W 48	S 14 E 21	N 40 W 8	S 53 W 27	S 34 E 35	N 20 W 21	S 48 E 7
27½	N 39 E 9	S 27 E 39	S 03 W 22	N 16 W 27	S 16 E 41	N 04 W 47	S 17 E 18	N 30 E 10	S 41 W 31	S 39 E 31	N 03 W 21	S 39 E 7
30	S 86 E 4	S 27 E 39	N 20 E 30	N 06 E 13	S 15 E 31	N 13 W 40	S 16 E 18	E 3	S 42 W 33	S 45 E 27	N 19 E 25	S 07 W 14

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	**28** 3^{39} a	**28** 7^{45} a	**28** 11^{49} a	**28** 3^{45} p		**28** 11^{45} p	**6** 3^{45} a	**6** 7^{49} a	**6** 11^{45} a	**6** 3^{49} p	**6** 7^{45} p	**6** 11^{49} p
$2^1/_2$	S 25 E 53	S 77 W 20	0	S 46 E 55		N 31 W 46	N 41 W 46	N 31 W 43	E 53	N 05 E 40	N 19 W 29	S 58 E 36
5	S 34 E 69	S 51 W 21	N 59 E 19	S 45 E 47		N 31 W 52	N 49 W 44	N 07 W 32	E 52	N 14 W 39	N 30 W 33	S 69 E 48
10	S 35 E 71	S 88 W 24	S 40 E 11	S 45 E 46		N 26 W 30	N 43 W 44	N 03 E 23	S 56 E 37	N 18 W 41	N 32 W 39	S 31 E 47
15	S 43 E 71	S 74 W 14	S 08 E 16	S 34 E 33		N 21 W 20	N 26 W 43	N 06 E 15	S 31 E 21	N 37 W 50	N 19 W 44	S 47 E 46
20	S 38 E 68	S 68 E 24	S 21 E 29	S 23 E 33		N 27 W 17	N 26 W 48	N 12 E 10	S 44 W 17	N 24 W 60	N 29 W 20	S 12 E 50
25	S 35 E 53	S 53 E 25	S 02 E 31	S 31 E 32		N 56 W 17	N 16 W 40	N 23 E 7	S 40 W 17	N 26 W 58	N 84 W 11	S 20 E 39
$27^1/_2$	S 23 E 47	S 72 E 23	S 12 E 33	S 31 E 31		N 49 W 20	N 14 W 40	S 57 W 8	S 42 W 17	N 16 W 65	N 74 W 9	S 18 E 22
30	S 38 E 51	N 82 E 20	S 16 E 33	S 45 E 38		N 58 W 20	N 17 W 39	S 56 W 8	N 70 W 11	N 33 W 51	S 25 E 10	S 15 E 31
	29 3^{38} a	**29** 7^{44} a	**29** 11^{45} a	**29** 3^{48} p	**29** 7^{49} p	**29** 11^{49} p	**7** 3^{40} a	**7** 7^{44} a	**7** 11^{49} a	**7** 3^{45} p	**7** 7^{49} p	**7** 11^{45} p
$2^1/_2$	N 82 E 36	N 07 E 16	N 38 W 33	N 87 E 18	N 18 W 25	N 28 W 59	N 04 W 44	N 08 W 46	N 77 E 59	N 13 W 59	N 41 W 79	S 70 E 25
5	S 85 E 36	N 70 W 13	N 42 W 32	S 60 E 21	N 06 E 33	N 30 W 63	N 08 W 39	N 11 W 45	N 86 E 58	N 18 W 69	N 47 W 75	S 66 E 25
10	S 74 E 40	N 74 W 15	N 17 W 38	S 64 E 21	N 04 W 32	N 31 W 60	N 20 W 45	N 09 W 51	N 86 E 46	N 16 W 77	N 48 W 80	S 43 E 30
15	S 20 E 40	S 34 W 25	N 26 W 30	S 60 E 24	N 28 W 23	N 23 W 55	N 26 W 42	N 18 W 46	S 84 E 33	N 23 W 74	N 45 W 78	S 20 E 31
20	S 16 E 40	N 57 W 15	N 25 W 30	S 64 E 23	N 14 W 26	N 20 W 46	N 30 W 39	N 16 W 48	N 89 E 32	N 12 W 60	N 45 W 78	S 23 E 31
25	S 41 E 37	N 42 W 20	N 05 E 21	S 66 E 21	N 08 W 37	N 27 W 31	N 54 W 39	N 16 W 42	S 86 E 25	N 15 W 58	N 47 W 75	S 34 E 30
$27^1/_2$	S 46 E 27	N 06 W 17	N 02 W 20	S 54 E 17	N 16 W 29	N 53 W 22	N 15 W 33	N 42 W 32	N 64 E 15	N 11 W 57	N 41 W 74	S 29 E 29
30	S 23 E 24	N 09 E 20	N 16 W 20	S 25 E 17	N 23 W 21	N 48 W 22	N 20 W 37	N 64 W 25	S 85 W 14	N 18 W 57	N 38 W 70	S 32 E 21
	30 3^{40} a	**30** 7^{43} a	**30** 11^{48} a	**30** 3^{50} p	**30** 7^{40} p	**30** 11^{42} p	**8** 3^{49} a	**8** 7^{44} a	**8** 11^{44} a	**8** 3^{49} p	**8** 7^{44} p	**8** 11^{49} p
$2^1/_2$	E 19	S 66 W 29	N 31 W 42	N 65 E 16	S 75 E 13	N 23 W 46	N 17 E 25	N 07 E 19	S 88 E 46	N 04 E 40	N 19 W 80	S 73 E 29
5	S 71 E 20	S 04 W 29	N 32 W 38	S 79 E 21	S 78 E 14	N 27 W 48	N 57 W 25	N 55 W 33	S 74 E 44	N 01 E 43	N 20 W 79	S 78 E 33
10	S 56 E 23	S 11 W 32	N 30 W 45	S 81 E 25	S 48 E 15	N 25 W 52	N 36 W 24	N 41 W 37	S 58 E 35	N 06 W 43	N 25 W 76	S 35 E 19
15	S 44 E 22	S 05 E 34	N 18 W 25	S 34 E 32	S 36 E 18	N 19 W 45	N 18 W 23	N 50 W 38	S 48 E 34	N 09 W 50	N 26 W 69	S 55 E 21
20	S 44 E 22	S 09 E 22	S 63 E 32	S 23 E 23	S 13 E 10	N 10 W 42	N 44 W 27	N 40 W 37	S 49 E 38	N 34 W 49	N 27 W 70	S 64 E 23
25	S 30 E 21	S 27 E 16	S 66 E 32	S 08 E 27	N 15 W 10	N 12 W 41	N 30 W 30	N 39 W 34	S 19 E 25	N 13 W 49	N 41 W 57	S 61 E 20
$27^1/_2$	S 16 E 16	S 32 E 12	N 79 E 29	S 25 E 30	N 30 E 9	N 11 W 30	N 40 W 30	N 37 W 32	S 61 E 32	N 18 W 50	N 36 W 56	S 05 W 22
30	S 14 E 16	S 34 E 12	N 81 E 23	S 29 E 30	N 40 E 14	N 13 W 27	N 26 W 30	N 26 W 30	S 42 E 32	N 27 W 43	N 36 W 55	S 01 W 23
	31 3^{49} a	**31** 7^{45} a	**31** 11^{49} a	**31** 3^{48} p	**31** 7^{40} p	**31** 11^{45} p	**9** 3^{45} a	**9** 7^{49} a	**9** 11^{48} a	**9** 3^{49} p	**9** 7^{44} p	**9** 11^{39} p
$2^1/_2$	N 16	S 73 E 40	N 50 W 20	N 16 W 9	S 48 E 44	N 77 E 17	S 81 E 19	N 31 W 36	S 81 E 53	N 37 E 25	N 23 W 48	S 55 E 25
5	N 09 E 36	S 48 E 32	N 57 W 20	N 08 W 20	S 51 E 30	N 76 E 21	S 83 E 24	N 10 W 48	S 65 E 45	N 12 E 33	N 13 W 67	S 63 E 25
10	N 12 E 35	S 36 E 23	N 46 W 30	N 02 E 21	S 35 E 31	N 56 E 19	S 79 E 22	N 08 W 46	S 66 E 42	N 45	N 16 W 67	S 57 E 32
15	N 13 E 17	S 15 E 20	N 38 W 35	N 35 E 14	S 15 E 31	N 46 E 26	N 37 E 23	N 02 W 50	S 58 E 29	N 10 E 44	N 24 W 67	S 46 E 27
20	N 12 E 17	S 10 E 13	N 26 W 38	S 07 W 4	S 20 E 25	N 41 E 31	N 31 E 22	N 33 W 55	S 62 E 35	N 05 E 49	N 27 W 70	S 50 E 26
25	S 50 E 21	S 15 E 12	N 19 W 40	S 07 W 4	S 03 W 13	N 19 E 32	N 05 W 23	N 36 W 54	S 52 E 34	N 16 W 48	N 30 W 70	S 52 E 21
$27^1/_2$	S 34 E 20	N 45 W 7	N 04 W 30	S 07 W 4	S 24 E 12	N 04 W 35	N 06 E 28	N 36 W 54	S 53 E 35	N 04 E 33	N 29 W 69	S 46 E 25
30	S 31 E 20	N 45 W 7	N 02 W 30	S 07 W 4	S 18 E 17	N 16 W 36	N 05 E 27	N 49 W 42	S 36 E 24	N 03 E 32	N 30 W 61	S 46 E 30
	1 3^{50} a	**1** 7^{49} a	**1** 11^{45} a	**1** 3^{48} p	**1** 7^{40} p	**1** 11^{40} p	**10** 3^{49} a	**10** 7^{45} a	**10** 11^{49} a	**10** 3^{45} p	**10** 7^{49} p	**10** 11^{40} p
$2^1/_2$	0	S 63 E 46	N 49 W 11	N 01 W 16	S 53 E 33	N 02 W 11	0	N 03 W 46	N 19 E 33	N 47 E 33	N 13 W 58	N 49 E 25
5	N 09 W 14	S 45 E 46	N 45 W 11	N 63 W 19	S 51 E 33	N 11 E 11	N 89 E 16	N 28 W 52	N 07 E 32	N 15 E 40	N 08 W 66	N 30 E 31
10	N 26 W 13	S 44 E 45	N 62 W 11	N 58 W 18	S 42 E 38	N 44 W 11	S 79 E 16	N 26 W 50	N 17 E 38	N 20 W 52	N 37 W 82	N 33 E 33
15	N 10 W 18	S 30 E 48	N 43 W 16	N 52 W 17	S 30 E 44	N 30 W 20	S 47 E 21	N 26 W 48	N 17 E 37	N 16 W 50	N 34 W 79	N 11 E 38
20	N 40 E 10	S 22 W 49	N 36 W 20	N 20 W 13	S 32 E 43	N 17 W 29	S 80 E 36	N 26 W 46	N 12 E 36	N 16 W 48	N 36 W 79	N 10 E 29
25	N 41 W 9	S 40 E 36	N 12 W 20	S 44 E 5	S 20 E 35	N 07 E 28	S 75 E 22	N 27 W 38	N 28 E 32	N 12 W 46	N 38 W 73	N 23 W 40
$27^1/_2$	S 21 W 13	S 40 E 31	N 16 E 23	S 44 E 5	S 19 E 31	N 04 W 24	S 20 W 29	N 41 W 38	N 40 E 35	N 19 W 39	N 20 W 72	N 24 W 31
30	S 31 W 12	S 40 E 22	N 16 E 26	S 44 E 5	S 18 E 31	N 04 E 24	S 30 E 22	N 38 W 44	N 43 E 34	N 13 W 38	N 31 W 70	N 22 W 41
	2 3^{38} a	**2** 7^{44} a	**2** 11^{49} a	**2** 3^{45} p	**2** 7^{49} p	**2** 11^{45} p	**11** 3^{38} a	**11** 7^{49} a	**11** 11^{44} a	**11** 3^{49} p	**11** 7^{45} p	**11** 11^{49} p
$2^1/_2$	N 85 W 21	S 18 E 58	S 51 W 25	N 24 W 29	S 41 E 48	N 54 W 19	S 63 E 33	N 13 W 25	N 88 W 25	S 33 E 48	N 11 W 25	N 58 W 25
5	N 72 W 19	S 33 E 58	S 69 W 20	N 26 W 25	S 47 E 47	N 45 W 16	S 48 E 32	N 33	N 46 W 31	S 21 E 36	N 24 W 25	S 61 W 25
10	N 67 W 23	S 31 E 71	S 44 W 19	N 24 W 20	S 49 E 46	N 45 W 10	S 59 E 23	N 16 W 32	N 73 W 32	S 28 E 47	N 24 W 24	N 66 W 32
15	N 48 W 26	S 33 E 63	S 20 W 22	N 25 W 14	S 52 E 47	S 43 E 2	S 48 E 23	N 08 W 52	N 79 W 30	S 44 E 46	N 21 W 31	N 50 W 23
20	N 34 W 21	S 26 E 68	S 20 E 21	N 12 W 14	S 50 E 46	N 05 W 10	S 42 E 22	N 08 W 49	S 62 W 27	S 33 E 45	N 32 W 31	S 64 W 29
25	N 31 W 16	S 20 E 62	S 40 E 17	S 21 E 5	S 48 E 43	N 18 E 10	S 50 E 30	N 25 W 45	W 18	S 14 E 52	N 06 W 37	S 60 W 26
$27^1/_2$	N 54 W 8	S 29 E 52	S 34 E 17	S 21 E 5	S 46 E 40	N 24 E 18	S 51 E 30	N 21 W 44	S 18 W 20	S 04 E 31	N 18 W 37	S 66 W 28
30	N 84 W 7	S 36 E 50	S 55 E 17	S 21 E 5	S 45 E 32	N 29 E 18	S 49 E 21	N 21 W 42	S 03 E 16	S 27 E 30	N 11 W 36	S 58 W 27
	3 3^{50} a	**3** 7^{44} a	**3** 11^{45} a	**3** 3^{49} p	**3** 7^{49} p	**3** 11^{49} p	**12** 3^{40} a	**12** 7^{44} a	**12** 11^{49} a	**12** 3^{45} p	**12** 7^{49} p	**12** 11^{45} p
$2^1/_2$	N 28 W 48	S 62 E 48	S 63 E 11	N 01 W 20	S 73 E 53	S 43 E 16	S 26 E 67	S 07 W 25	S 18 E 24	S 23 E 59	N 03 W 29	N 48 W 36
5	N 33 W 54	S 50 E 50	S 63 E 11	N 44 W 30	S 63 E 35	S 42 E 18	S 19 E 77	S 34 E 33	S 45 E 21	S 23 E 69	N 03 E 36	N 41 W 41
10	N 33 W 46	S 48 E 46	S 44 E 16	N 46 W 32	S 63 E 35	S 48 E 15	S 15 E 74	S 27 E 31	S 12 E 22	S 38 E 67	N 38	N 38 W 47
15	N 38 W 33	S 31 E 45	S 46 E 18	N 50 W 31	S 46 E 34	S 88 W 14	S 16 E 73	S 23 E 31	S 27 E 22	S 44 E 75	N 06 E 44	N 06 W 46
20	N 24 W 26	S 30 E 39	S 46 E 9	N 42 W 44	S 41 E 22	W 13	S 14 E 69	S 28 E 33	S 10 E 16	S 44 E 72	N 20 W 49	N 15 W 56
25	N 20 W 17	S 24 E 34	N 46 W 4	N 20 W 42	S 15 E 26	N 09 E 14	S 15 E 61	S 09 E 21	S 02 W 16	S 26 E 69	N 18 W 52	N 20 W 54
$27^1/_2$	N 22 W 17	S 14 E 31	N 12	N 16 W 33	S 12 E 26	N 12 E 14	S 13 E 65	S 23 E 20	S 50 W 19	S 24 E 68	N 26 W 44	N 20 W 53
30	N 33 W 12	S 12 E 31	N 04 E 20	N 28 W 19	S 32 W 22	N 06 E 17	S 15 E 63	S 16 E 20	S 59 W 14	S 26 E 45	N 11 W 24	N 46 W 42
	4 3^{45} a	**4** 7^{49} a	**4** 11^{45} a	**4** 3^{44} p	**4** 7^{49} p	**4** 11^{44} p	**13** 3^{49} a	**13** 7^{40} a	**13** 11^{45} a	**13** 3^{49} p	**13** 7^{49} p	**13** 11^{49} p
$2^1/_2$	N 32 W 33	S 77 E 24	S 30 E 25	N 43 W 36	S 70 E 20	S 33 E 25	S 25 E 48	S 23 E 34	N 65 W 25	S 31 E 58	S 17 W 29	N 51 W 20
5	N 56 W 39	S 73 E 29	S 27 E 27	N 56 W 36	S 70 E 29	S 42 E 33	S 18 E 69	S 16 E 38	S 84 W 25	S 28 E 66	S 12 W 40	N 43 W 33
10	N 53 W 38	S 70 E 22	S 09 E 24	N 64 W 41	S 59 E 32	S 40 E 27	S 25 E 67	S 10 E 33	S 69 W 24	S 35 E 64	S 03 W 34	N 48 W 39
15	N 45 W 37	S 49 E 24	S 09 W 18	N 51 W 34	S 38 E 38	S 33 E 30	S 20 E 69	S 18 E 26	N 86 E 5	S 30 E 62	S 02 W 37	N 41 W 41
20	N 21 W 36	S 40 E 27	S 32 W 8	N 22 W 26	S 29 E 37	S 22 E 22	S 37 E 67	S 16 E 20	S 89 W 13	S 42 E 64	S 06 E 20	N 36 W 44
25	N 24 W 28	S 37 E 32	S 45 W 6	N 16 W 22	S 16 E 37	S 21 E 21	S 29 E 59	S 18 E 15	N 66 W 13	S 45 E 62	S 26 E 21	N 36 W 35
$27^1/_2$	N 26 W 28	S 28 E 26	S 37 E 3	N 15 W 19	S 19 E 36	S 14 E 20	S 39 E 59	S 15 E 20	N 51 W 23	S 42 E 66	S 74 E 12	N 25 W 31
30	N 22 W 22	S 22 E 26	N 54 E 4	N 26 W 56	S 20 E 36	S 14 E 15	S 28 E 54	S 26 E 16	N 38 W 24	S 41 E 68	S 85 E 13	N 30 W 31
	5 3^{49} a	**5** 7^{45} a	**5** 11^{49} a	**5** 3^{45} p	**5** 7^{44} p	**5** 11^{41} p	**14** 3^{45} a	**14** 7^{49} a	**14** 11^{44} a	**14** 3^{50} p	**14** 7^{40} p	**14** 11^{39} p
$2^1/_2$	N 53 W 53	S 77 E 11	S 28 E 25	N 36 W 38	N 06 W 25	S 64 E 33	S 28 E 46	S 11 E 40	N 51 W 16	S 35 E 30	S 12 E 40	N 33 W 46
5	N 41 W 52	S 76 E 11	S 48 E 40	N 23 W 43	N 13 E 31	S 65 E 39	S 20 E 53	S 02 E 39	N 02 E 19	S 43 E 31	S 12 E 37	N 33 W 39
10	N 43 W 30	S 79 E 16	S 55 E 43	N 33 W 32	N 07 E 29	S 37 E 23	S 20 E 50	S 05 E 52	N 13 W 33	S 43 E 28	S 20 E 31	N 32 W 34
15	N 42 W 23	S 42 E 23	S 41 E 44	N 34 W 42	N 01 E 18	S 26 E 20	S 29 E 48	S	N 36 W 29	N 23 W 27	S 36 E 29	S 25 E 34
20	N 11 W 20	S 21 E 28	S 25 E 49	N 40 W 46	N 30 W 7	S 21 E 12	S 40 E 47	S 08 E 39	N 11 W 15	S 43 E 30	S 35 E 30	N 23 W 30
25	N 04 E 20	S 26 E 27	S 26 E 41	N 20 W 37	N 51 W 11	N 50 W 7	S 44 E 45	S 27 E 34	N 14 E 12	S 37 E 37	S 48 E 28	N 09 W 29
$27^1/_2$	N 01 E 20	S 27 E 27	S 40 E 25	N 18 W 43	S 05 E 6	N 50 W 7	S 40 E 44	S 30 E 31	N 71 E 11	S 43 E 44	S 69 E 23	N 01 W 28
30	N 05 E 16	S 21 E 27	S 74 E 17	N 01 W 36	S 05 E 6	S 62 E 12	S 45 E 37	S 39 E 31	S 86 E 11	S 36 E 40	S 70 E 21	N 06 E 27

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

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Meter	15 3^{49} a	15 7^{45} a	15 11^{49} a	15 3^{45} p	15 7^{49} p	15 11^{39} p	24 3^{45} a	24 7^{49} a	24 11^{49} a	24 3^{49} p	24 7^{45} p	24 11^{40} p
2½	N 46 W 13	S 29 E 59	N 48 W 30	N 03 W 19	S 54 E 59	N 30 W 19	S 76 E 19	N 78 W 25	N 54 E 19	N 49 E 34	N 34 W 36	N 31 W 11
5	N 51 W 13	S 29 E 69	N 42 W 29	N 03 E 20	S 53 E 54	N 28 W 16	S 67 E 24	N 47 W 25	S 56 E 16	N 37 E 23	N 35 W 39	N 27 W 19
10	N 38 W 20	S 28 E 67	N 53 W 26	N 03 E 13	S 40 E 46	N 22 W 15	S 60 E 22	N 40 W 32	S 56 E 20	N 19 E 17	N 39 W 46	N 56 E 11
15	N 57 W 19	S 16 E 43	N 27 W 16	N 23 W 6	S 30 E 45	N 22 W 20	S 17 E 22	N 32 W 34	S 34 E 23	N 36 W 18	N 37 W 50	S 03 E 2
20	S 72 W 19	S 15 E 29	N 14 W 13	S 3	S 29 E 42	N 23 W 24	S 52 E 21	N 25 W 30	S 31 E 30	N 72 W 16	N 34 W 50	S 03 E 2
25	S 26 W 18	S 28 E 28	N 02 E 11	S 02 W 9	S 34 E 38	N 19 W 23	S 34 W 23	N 16 W 21	S 19 E 31	N 87 W 16	N 40 W 49	S 03 E 2
27½	S 20 W 21	S 30 E 27	N 27 E 12	S 10 W 13	S 41 E 32	N 13 W 21	S 33 W 23	N 10	S 10 E 31	N 30 E 8	N 38 W 45	S 11 W 15
30	S 10 W 21	S 30 E 27	N 38 E 13	S 07 W 14	S 35 E 29	N 10 W 21	S 10 E 16	S 37 E 10	S 16 E 38	N 16 E 14	N 43 W 44	S 20 W 20
	16 3^{48} a	**16** 7^{49} a	**16** 11^{44} a	**16** 3^{49} p	**16** 7^{45} p	**16** 11^{49} p	**25** 3^{48} a	**25** 7^{45} a	**25** 11^{49} a	**25** 3^{48} p	**25** 7^{49} p	**25** 11^{40} p
2½	N 28 W 40	S 33 E 40	N 29 W 9	N 42 W 23	S 49 E 46	N 51 W 30	S 81 E 16	N 29 W 25	0	S 41 E 22	N 65 W 44	N 31 W 37
5	N 20 W 32	S 46 E 53	0	N 42 W 27	S 50 E 39	N 04 W 18	S 26 E 16	N 58 W 25	0	S 40 E 19	N 75 W 44	N 36 W 35
10	N 28 W 23	S 42 E 55	0	N 31 W 26	S 50 E 38	N 06 W 20	S 10 W 18	N 58 W 39	N 53 E 19	S 43 E 18	N 54 W 47	N 34 W 29
15	N 28 W 10	S 33 E 51	N 60 W 14	N 31 W 13	S 39 E 50	N 24 W 9	S 02 W 17	N 37 W 45	N 60 E 23	S 25 E 17	N 07 W 58	N 34 W 30
20	W 4	S 12 E 49	N 38 W 20	N 31 W 13	S 38 E 48	N 41 W 17	S 15 W 17	N 16 W 37	N 73 E 20	S 33 E 14	N 02 W 63	N 26 W 21
25	S 72 W 9	S 11 E 45	N 20 W 13	N 46 W 13	S 24 E 47	N 16 W 22	S 27 W 17	N 10 W 20	N 80 E 16	S 47 E 7	N 11 W 65	N 31 W 7
27½	S 53 W 11	S 14 E 44	N 16 W 18	N 65 W 7	S 21 E 39	N 12 W 27	S 73 W 15	N 14 W 20	N 64 E 8	N 32 W 5	N 20 W 53	S 33 E 9
30	S 52 W 13	S 14 E 44	N 14	N 65 W 7	S 27 E 31	N 20 W 27	S 76 W 15	N 15 W 19	N 32 E 16	N 32 W 5	N 13 W 52	S 33 E 9
	17 3^{42} a	**17** 7^{44} a	**17** 11^{48} a	**17** 3^{45} p	**17** 7^{49} p	**17** 11^{45} p	**26** 3^{48} a	**26** 7^{49} a	**26** 11^{49} a	**26** 3^{49} p	**26** 7^{44} p	**26** 11^{49} p
2½	N 20 W 64	S 58 E 25	S 37 E 13	N 38 W 36	S 40 E 29	S 53 E 19	S 15 E 59	S 15 W 29	S 39 E 16	S 21 E 70	N 58 W 33	S 45 W 25
5	N 22 W 65	S 56 E 33	S 52 W 13	N 48 W 44	S 53 E 32	S 46 E 19	S 06 E 58	S 60 W 31	S 21 E 16	S 14 E 69	N 74 W 33	N 81 W 25
10	N 26 W 60	S 53 E 34	N 74 W 13	N 47 W 34	S 32 E 38	N 51 W 2	S 08 E 68	S 80 W 39	S 72 E 16	S 07 W 71	N 56 W 31	N 06 W 33
15	N 25 W 47	S 36 E 30	N 64 W 13	N 48 W 29	S 32 E 41	N 51 W 2	S 01 W 61	S 87 W 42	S 51 E 33	S 15 E 64	N 53 W 38	N 24 W 32
20	N 26 W 34	S 24 E 30	N 32 W 18	N 48 W 28	S 32 E 43	N 51 W 2	S 10 E 59	S 70 W 30	S 21 E 32	S 40 E 52	S 89 W 37	N 43 W 30
25	N 36 W 28	S 26 E 37	N 23 W 19	N 48 W 18	S 34 E 44	N 51 W 2	S 21 E 39	N 86 E 37	S 21 E 31	S 48 E 51	S 41 W 31	N 56 W 21
27½	N 60 W 20	S 14 E 32	N 10 W 19	N 34 W 18	S 34 E 44	N 51 W 2	S 20 E 34	N 89 E 38	S 34 E 31	S 62 E 46	S 41 W 31	N 86 W 22
30	N 56 W 20	S 04 E 24	N 19	N 47 W 18	S 34 E 44	N 51 W 2	S 16 W 25	N 68 E 36	S 14 E 38	S 62 E 46	S 40 W 38	N 87 W 23
	18 3^{49} a	**18** 7^{42} a	**18** 11^{39} a	**18** 3^{48} p	**18** 7^{40} p	**18** 11^{49} p	**27** 3^{39} a	**27** 7^{44} a	**27** 11^{49} a	**27** 3^{45} p	**27** 7^{49} p	**27** 11^{45} p
2½	N 63 W 33	S 55 E 25	S 37 E 24	N 59 W 34	0	S 54 E 33	S 21 E 68	S 13 W 25	S 35 E 24	S 15 E 67	N 71 W 36	N 35 W 25
5	N 63 W 37	S 42 E 25	S 57 E 24	N 58 W 30	N 60 E 7	S 50 E 24	S 36 E 79	S 40 W 25	S 77 E 30	S 13 E 75	N 80 W 34	N 23 W 25
10	N 41 W 38	S 25 E 30	S 52 E 14	N 59 W 36	N 76 E 14	S 43 E 36	S 32 E 72	S 48 W 32	S 36 E 22	S 10 E 81	S 87 W 31	N 48 W 32
15	N 36 W 37	S 33 E 36	S 86 E 14	N 46 W 41	S 52 E 16	S 46 E 26	S 26 E 60	S 26 W 34	S 73 E 22	S 10 E 78	N 70 W 30	N 48 W 31
20	N 30 W 36	S 47 E 37	N 88 E 13	N 24 W 34	S 29 E 27	S 06 W 21	S 21 E 59	S 27 E 36	S 66 E 27	S 56 E 59	S 83 E 8	N 54 W 22
25	N 17 W 31	S 48 E 41	N 60 W 5	N 29 W 30	S 24 E 31	S 07 E 11	S 27 E 48	S 85 E 33	S 80 E 32	S 54 E 57	N 46 E 21	N 74 W 22
27½	N 15 W 23	S 50 E 42	N 60 W 5	N 27 W 19	S 20 E 29	S 05 E 8	S 30 E 43	S 64 E 32	S 86 E 32	S 52 E 57	N 44 E 27	N 58 W 11
30	N 20 W 19	S 49 E 44	N 60 W 5	N 14 W 15	S 14 E 28	S 13 E 8	S 33 E 37	S 82 E 33	S 88 E 35	S 39 E 44	N 44 E 44	N 20 W 11
	19 3^{45} a	**19** 7^{49} a	**19** 11^{44} a	**19** 3^{49} p	**19** 7^{44} p	**19** 11^{44} p	**28** 3^{49} a	**28** 7^{44} a	**28** 11^{40} a	**28** 3^{49} p	**28** 7^{44} p	**28** 11^{48} p
2½	N 39 W 25	N 05 W 7	N 81 E 19	N 52 W 43	N 05 W 37	S 77 E 21	S 23 E 67	S 11 E 45	S 69 W 11	S 33 E 76	S 01 E 40	N 23 W 46
5	N 40 W 25	N 15 W 19	N 80 E 20	N 40 W 44	N 08 W 39	S 38 E 29	S 20 E 84	S 12 E 39	0	S 20 E 74	S 61 W 33	N 25 W 43
10	N 27 W 32	N 04 W 20	S 72 E 22	N 40 W 44	N 16 W 45	S 03 E 19	S 12 E 80	S 05 E 44	0	S 18 E 81	S 16 W 31	N 16 W 48
15	N 24 W 38	N 66 E 11	S 58 E 21	N 42 W 45	N 10 W 34	S 14	S 31 E 60	S 10 E 41	0	S 11 E 64	S 67 W 31	N 23 W 46
20	N 20 W 44	S 44 E 17	S 36 E 24	N 43 W 48	N 25	S 18	S 40 E 48	S 27 E 26	S 06 E 19	S 38 E 58	S 21 E 29	N 40 W 34
25	N 08 W 30	S 31 E 20	S 21 E 20	N 31 W 46	N 19 E 4	S 01 E 18	S 38 E 47	S 89 E 28	S 02 E 23	S 24 E 60	N 72 E 24	S 24 E 15
27½	N 06 W 20	S 21 E 19	S 35 E 13	N 17 W 46	S 10 E 12	S 03 E 13	S 22 E 46	S 78 E 31	S 09 W 22	S 20 E 56	N 60 E 28	S 24 E 15
30	N 06 W 20	S 11 E 19	S 07 W 4	N 17 W 43	S 10 E 12	S 02 E 7	S 45 E 44	N 68 E 40	S 18 E 28	S 23 E 55	E 30	S 24 E 15
	20 3^{49} a	**20** 7^{45} a	**20** 11^{49} a	**20** 3^{45} p	**20** 7^{49} p	**20** 11^{38} p	**29** 3^{45} a	**29** 7^{49} a	**29** 11^{40} a	**29** 3^{44} p	**29** 7^{44} p	**29** 11^{38} p
2½	S 89 W 25	N 42 W 30	S 47 E 33	N 25 W 25	N 61 W 33	S 33 E 40	S 33 E 70	S 18 E 53	N 20 W 59	0	S 11 E 30	N 81 W 48
5	N 84 W 29	N 37 W 29	S 42 E 32	N 26 W 25	N 51 W 34	S 36 E 44	S 45 E 65	S 12 E 38	N 27 W 54	0	S 23 E 25	N 81 W 47
10	N 51 W 32	N 25 W 33	S 20 E 33	N 28 W 39	N 59 W 23	S 33 E 45	S 37 E 45	S 38	N 24 W 52	N 57 E 25	S 20 E 20	N 65 W 51
15	N 53 W 52	N 25 E 22	S 10 E 28	N 39 W 45	N 57 W 18	S 30 E 49	S 17 E 44	S 10 E 50	N 25 W 55	N 80 E 39	N 12 W 4	N 79 W 56
20	N 34 W 54	N 46 E 7	S 12 E 21	N 44 W 50	N 70 W 12	S 24 E 48	S 15 E 30	S 79 E 30	N 24 W 46	S 18 E 33	N 12 W 4	N 20 W 56
25	N 36 W 53	S 42 W 12	S 28 E 15	N 60 W 48	N 69 W 10	S 20 E 50	S 15 E 30	N 54 E 26	N 01 W 44	S 46 W 18	N 20 W 15	N 30 W 42
27½	N 24 W 52	S 30 W 13	S 55 E 13	N 67 W 48	N 70 W 7	S 17 E 48	S 15 E 43	N 70 E 32	N 20 E 40	S 30 W 16	N 19 W 27	N 47 W 30
30	N 15 W 46	S 37 W 17	S 55 E 13	N 72 W 47	S 60 W 8	S 19 E 44	S 08 E 42	N 71 E 37	N 36 E 41	N 75 W 6	N 21 W 36	N 12 W 22
	21 3^{49} a	**21** 7^{48} a	**21** 11^{45} a	**21** 3^{49} p	**21** 7^{45} p	**21** 11^{49} p	**30** 3^{49} a	**30** 7^{45} a	**30** 11^{48} a	**30** 3^{48} p	**30** 7^{49} p	**30** 11^{38} p
2½	S 79 W 19	N 40 W 46	S 68 E 29	N 20 W 21	N 40 W 33	S 43 E 29	S 01 W 21	S 18 E 70	S 67 W 19	S 21 E 25	S 03 E 70	N 33 W 36
5	N 87 W 16	N 45 W 45	S 55 E 37	N 28 W 25	N 40 W 39	S 54 E 40	S 07 W 33	S 17 E 58	S 28 W 20	S 19 E 25	S 01 E 73	N 33 W 39
10	N 56 W 23	N 16 W 30	S 33 E 45	N 39 W 32	N 40 W 45	S 42 E 45	S 09 W 29	S 08 E 56	S 54 W 20	S 30 E 30	S 11 E 76	N 35 W 38
15	N 67 W 26	N 20 W 15	S 16 E 44	N 35 W 38	N 41 W 44	S 30 E 46	S 56 W 25	S 11 W 66	N 73 W 14	S 27 E 34	S 11 E 73	N 28 W 29
20	N 32 W 20	N 22 W 10	S 23 E 36	N 40 W 40	N 28 W 28	S 19 E 46	S 16 W 22	S 13 W 42	N 52 E 4	S 23 E 37	S 20 E 71	N 20 W 20
25	N 03 W 13	S 33 W 11	S 24 E 34	N 18 W 39	N 29 W 18	S 08 E 45	S 34 W 25	S 03 E 40	S 60 E 19	S 24 E 41	S 34 E 58	S 53 W 7
27½	N 10 E 13	S 48 W 8	S 17 E 27	N 18 W 36	N 45 W 18	S 20 E 44	S 18 W 30	S 60 E 30	S 80 E 21	S 26 E 35	S 70 E 37	S 30 E 18
30	N 41 E 14	S 47 W 8	S 17 E 26	N 04 W 32	N 63 W 18	S 20 E 39	S 22 W 30	S 18 E 27	S 73 E 27	S 31 E 34	E 42	S 24 E 30
	22 3^{48} a	**22** 7^{44} a	**22** 11^{49} a	**22** 3^{45} p	**22** 7^{49} p	**22** 11^{46} p	**1** 3^{48} a	**1** 7^{48} a	**1** 11^{45} a	**1** 3^{49} p	**1** 7^{46} p	**1** 11^{49} p
2½	N 73 W 7	N 45 W 30	S 66 E 25	N 18 W 24	N 47 W 33	S 17 E 40	0	S 19 E 85	S 47 W 33	S 03 E 18	S 23 E 67	S 25 W 48
5	N 71 W 7	N 59 W 33	S 67 E 25	N 08 E 18	N 48 W 49	S 20 E 39	S 83 E 25	S 13 E 83	S 42 W 33	N 45 E 16	S 25 E 66	S 25 W 47
10	N 71 W 11	N 54 W 33	S 70 E 33	N 61 W 18	N 60 W 54	S 30 E 38	S 55 E 30	S 10 E 85	S 55 W 32	N 10 W 16	S 16 E 82	S 48 W 35
15	N 60 W 16	N 57 W 22	S 60 E 38	N 50 W 22	N 53 W 55	S 26 E 30	S 31 E 29	S 33 E 84	S 87 W 23	S 46 W 20	S 23 E 79	S 44 W 39
20	N 57 W 18	N 49 W 17	S 50 E 44	N 40 W 28	N 31 W 47	S 01 E 30	S 29 E 27	S 36 E 66	S 36 W 22	S 55 W 20	S 28 E 58	N 72 E 39
25	N 57 W 21	N 23 W 6	S 43 E 43	N 34 W 33	N 35 W 35	S 03 E 36	S 20 W 24	S 40 E 63	N 82 E 28	S 28 W 21	S 38 E 57	N 36 E 39
27½	N 52 W 24	N 23 W 6	S 39 E 45	N 21 W 32	N 43 W 29	S 10 E 43	S 20 W 23	S 41 E 57	N 45 E 35	S 34 W 35	S 36 E 65	N 44 E 50
30	N 47 W 27	N 21 E 2	S 38 E 42	N 22 W 32	N 36 W 18	S 11 E 42	S 24 E 16	S 50 E 45	N 74 E 34	S 34 W 38	S 01 W 45	N 46 E 49
	23 3^{49} a	**23** 7^{44} a	**23** 11^{45} a	**23** 3^{49} p	**23** 7^{40} p	**23** 11^{49} p	**2** 3^{38} a	**2** 7^{44} a	**2** 11^{49} a	**2** 3^{39} p	**2** 7^{44} p	**2** 11^{38} p
2½	S 03 W 25	N 32 W 40	S 58 E 29	N 55 E 24	N 43 W 20	S 85 E 16	N 40 W 48	S 16 E 70	S 57 W 25	N 33 W 25	S 26 E 46	S 42 W 50
5	S 08 W 21	N 30 W 44	S 49 E 25	N 06 E 11	N 50 W 40	S 52 E 16	N 30 W 53	S 22 E 69	S 63 W 25	N 33 W 31	S 40 E 42	S 42 W 25
10	S 40 W 21	N 29 W 42	S 36 E 32	N 42 E 10	N 48 W 52	S 35 E 25	N 36 W 37	S 20 E 71	S 74 W 28	N 32 W 38	S 25 E 47	S 47 W 20
15	S 70 W 24	N 31 W 34	S 34 E 31	N 34 E 10	N 26 W 39	S 30 E 24	N 32 W 31	S 23 E 70	N 89 W 23	N 38 W 34	S 30 E 49	S 53 W 20
20	S 64 W 28	N 26 W 25	S 45 E 30	N 27 W 14	N 13 W 36	S 28 E 23	S 64 W 23	S 26 E 61	N 70 E 6	N 56 W 30	S 38 E 44	N 46 E 18
25	S 20 W 12	N 29 W 9	S 46 E 37	N 37 W 18	N 16 W 29	S 16 E 21	S 47 W 24	S 54 E 50	N 68 E 27	N 49 W 34	S 44 E 33	N 66 E 19
27½	N 76 E 18	S 30 E 12	S 48 E 36	N 24 W 23	N 27 W 18	S 09 E 17	S 08 W 37	S 50 E 36	N 67 E 27	N 35 W 29	S 41 E 30	N 65 E 22
30	N 80 E 21	S 30 E 12	S 48 E 33	N 14 W 22	N 26 W 12	S 22 E 12	S 22 E 48	S 47 E 36	N 66 E 27	N 48 W 20	S 38 E 24	N 63 E 20

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	**3** 3^{48} a	**3** 7^{42} a	**3** 11^{44} a	**3** 3^{48} p	**3** 7^{40} p	**3** 11^{44} p	**12** 3^{38} a	**12** 7^{44} a	**12** 11^{45} a	**12** 3^{45} p	**12** 7^{44} p	**12** 11^{39} p
2½	N 23 W 40	S 28 E 30	S 42 W 19	N 33 W 59	S 72 E 19	S 07 W 30	S 26 E 46	S 05 E 19	N 66 W 19	S 43 E 46	0	N 38 W 33
5	N 27 W 39	S 31 E 34	S 43 W 21	N 31 W 58	N 78 E 27	S 11 W 32	S 28 E 53	S 02 W 19	N 45 W 22	S 34 E 41	N 26 E 11	N 34 W 43
10	N 23 W 52	S 30 E 36	S 33 W 18	N 32 W 52	S 72 E 38	S 29	S 25 E 57	S 34 W 10	N 35 W 27	S 52 E 47	N 04 W 14	N 34 W 45
15	N 40 W 36	S 32 E 33	S 13 W 13	N 30 W 48	S 75 E 32	S 05 W 29	S 35 E 62	N 77 W 11	N 22 W 31	S 55 E 46	N 20 W 8	N 28 W 43
20	N 65 W 25	S 26 E 27	N 36 E 4	N 34 W 37	S 25 E 18	S 20 E 9	S 37 E 60	N 16 E 3	N 13 W 21	S 34 E 52	N 27 W 15	N 19 W 38
25	N 73 W 20	S 35 E 17	N 18 E 9	N 34 W 29	S 19 W 21	N 06 E 8	S 43 E 52	N 16 E 3	N 20 E 5	S 25 E 45	N 08 W 19	N 19 W 24
27½	N 76 W 20	S 39 E 20	N 31 E 20	N 50 W 20	S 21	N 06 E 8	S 41 E 44	N 36 E 10	S 32 E 7	S 24 E 43	N 12 E 21	N 25 W 20
30	S 82 W 21	S 30 E 27	N 20 E 20	N 67 W 8	S 09 W 22	N 02 E 13	S 54 E 34	N 62 E 10	S 14 E 15	S 21 E 35	N 24 E 25	N 33 W 17
	4 3^{39} a	**4** 7^{49} a	**4** 11^{44} a	**4** 3^{49} p	**4** 7^{44} p	**4** 11^{40} p	**13** 3^{49} a	**13** 7^{44} a	**13** 11^{39} a	**13** 3^{40} p	**13** 7^{38} p	**13** 11^{40} p
2½	N 68 W 42	S 53 E 25	S 16 E 30	N 38 W 36	S 37 E 25	S 13 E 64	S 81 E 33	S 50 E 16	N 44 W 25	N 75 E 79	S 62 E 21	N 24 W 21
5	N 45 W 36	S 53 E 33	S 13 E 31	N 43 W 36	S 36 E 31	S 08 E 69	S 75 E 28	S 47 E 19	N 45 W 29	S 89 E 16	S 88 E 21	N 40 W 32
10	N 50 W 35	N 83 E 24	S 17 E 33	N 26 W 43	S 33 E 36	S 16 E 67	S 49 E 29	S 49 E 18	N 40 W 28	S 87 E 14	S 50 E 13	N 35 W 33
15	N 42 W 30	S 60 E 31	S 14 E 30	N 33 W 46	S 34 E 38	S 30 E 54	S 39 E 31	S 34 E 20	N 37 W 31	S 64 E 20	S 48 E 6	N 30 W 39
20	N 38 W 20	S 46 E 30	S 13 E 25	N 25 W 45	S 35 E 37	S 37 E 28	S 28 E 34	S 38 E 17	N 14 W 22	S 54 E 22	N 73 W 4	N 38 W 38
25	N 27 W 20	S 15 E 22	S 17 E 18	N 09 W 33	S 54 E 32	S 42 E 28	S 04 W 30	S 51 E 5	N 08 W 22	S 45 E 23	N 73 W 4	N 38 W 36
27½	N 04 W 13	S 15 E 22	S 26 E 4	N 07 W 32	S 52 E 20	S 46 E 19	S 01 E 27	N 38 E 7	N 03 E 19	S 34 E 26	N 7	N 37 W 35
30	N 19 W 20	S 10 E 21	N 15 W 9	N 10 W 19	S 13 E 16	S 49 E 19	S 07 W 28	N 48 E 10	N 23 W 10	S 16 E 29	N 01 W 7	N 34 W 33
	5 3^{38} a	7^{38} a	**5** 11^{41} a	**5** 3^{48} p	**5** 7^{49} p	**5** 11^{44} p	**14** 3^{39} a	**14** 7^{49} a	**14** 11^{44} a	**14** 3^{49} p	**14** 7^{49} p	**14** 11^{36} p
2½	W 42	S 28 E 33	S 13 E 80	N 40 W 46	0	S 11 E 59	N 37 E 6	S 27 E 24	N 54 W 24	N 39 E 11	S 28 E 36	N 59 W 21
5	N 73 W 50	S 35 E 39	S 68	N 30 W 55	0	S 13 E 65	N 67 E 6	S 26 E 23	N 55 W 21	N 32 E 11	S 30 E 37	N 46 W 24
10	N 50 W 53	S 28 E 31	S 05 E 66	N 31 W 57	N 25 W 19	S 16 E 71	N 71 E 7	S 20 E 28	N 54 W 25	N 32 E 11	S 33 E 38	N 36 W 24
15	N 55 W 52	S 33 E 30	S 27 E 68	N 28 W 51	N 51 W 23	S 20 E 75	N 84 E 6	S 03 W 22	N 48 W 29	S 32 W 1	S 34 E 33	N 48 W 28
20	N 28 W 44	S 28 E 29	S 37 E 61	N 18 W 40	N 69 W 28	S 17 E 72	S 62 E 6	S 11 W 16	N 31 W 32	S 06 E 12	S 44 E 25	N 37 W 33
25	N 10 W 36	S 35 E 20	S 53 E 38	N 22 W 29	N 67 W 21	S 12 E 63	S 08 E 6	S 16 E 12	N 13 W 21	S 06 E 11	S 37 E 20	N 28 W 33
27½	N 16 E 38	S 34 E 14	S 59 E 38	N 84 E 4	N 86 W 21	S 14 E 60	S 33 W 7	S 56 E 7	N 04 E 16	S 04 E 11	S 28 E 13	N 20 W 31
30	N 04 E 25	S 22 E 9	S 79 E 27	N 80 E 5	N 87 W 21	S 30 E 46	S 33 W 9	E 4	N 03 E 11	S 13 E 14	N 28 W 1	N 02 E 25
	6 3^{38} a	**6** 7^{44} a	**6** 11^{44} a	**6** 3^{49} p	**6** 7^{44} p	**6** 11^{49} p	**15** 3^{40} a	**15** 7^{39} a	**15** 11^{39} a	**15** 3^{48} p	**15** 7^{49} p	**15** 11^{44} p
2½	S 75 W 25	N 52 E 33	S 23 E 70	N 88 W 21	N 10 E 25	S 25 E 70	N 49 W 24	S 20 E 29	N 54 W 11	N 15 W 30	S 31 E 70	S 36 W 22
5	S 77 W 25	N 19 E 29	S 15 E 69	N 78 W 23	N 01 W 33	S 30 E 75	N 37 W 26	S 23 E 36	N 73 W 11	N 20 W 31	S 31 E 79	S 30 W 26
10	S 82 W 32	N 33 E 33	S 18 E 67	N 46 W 28	N 09 W 31	S 39 E 76	N 21 W 25	S 34 E 42	N 44 W 14	N 23 W 33	S 23 E 76	S 34 W 20
15	S 50 W 27	N 10 E 20	S 21 E 69	N 52 W 23	N 13 W 31	S 30 E 73	N 21 W 12	S 26 E 37	N 49 W 14	N 11 W 23	S 20 E 62	S 08 E 17
20	N 08 W 16	S 78 W 20	S 24 E 46	N 20 E 32	N 27 W 22	S 43 E 66	N 71 W 5	S 05 E 30	N 37 W 18	N 22 E 7	S 41 E 60	S 45 E 20
25	N 47 E 18	S 65 W 20	S 28 E 38	N 10 E 31	N 70 W 23	S 28 E 34	S 30 E 5	S 30 E 20	N 22 W 20	N 70 E 12	S 10 E 59	S 70 E 27
27½	N 56 E 23	S 74 W 23	S 25 E 30	N 07 E 30	S 79 W 21	S 30 E 34	S 47 W 7	S 17 E 18	N 02 E 18	S 61 E 21	S 34 E 56	E 26
30	N 64 E 23	S 75 W 25	S 50 E 19	N 10 E 30	S 74 W 19	S 24 E 33	S 50 W 9	S 22 E 20	N 01 E 13	S 48 E 27	S 35 E 55	N 76 E 29
	7 3^{39} a	**7** 7^{44} a	**7** 11^{49} a	**7** 3^{50} p	**7** 7^{45} p	**7** 11^{39} p	**16** 3^{38} a	**16** 7^{40} a	**16** 11^{46} a	**16** 3^{49} p	**16** 7^{39} p	**16** 11^{49} p
2½	S 09 W 30	N 05 E 25	S 73 E 59	N 63 W 19	N 29 W 55	S 63 E 33	N 62 W 25	S 20 E 83	S 25 W 33	N 43 W 36	S 27 E 64	S 11 E 33
5	S 11 W 34	N 07 W 33	S 68 E 58	N 54 W 20	N 34 W 58	S 56 E 37	S 74 W 25	S 19 E 79	S 44 W 25	N 47 W 36	S 28 E 58	S 11 E 32
10	S 02 E 33	N 27 W 39	S 54 E 57	N 58 W 29	N 34 W 56	S 54 E 38	S 64 W 28	S 34 E 72	S 50 W 28	N 19 W 41	S 30 E 64	S 40 W 32
15	S 38 W 23	N 21 W 25	S 51 E 44	N 48 W 31	N 37 W 55	S 51 E 33	S 71 W 27	S 33 E 65	S 50 W 23	N 45 W 35	S 34 E 66	S 09 W 35
20	S 78 W 23	N 39 W 16	S 35 E 31	N 23 W 31	N 38 W 48	S 36 E 21	S 24	S 36 E 67	S 01 E 23	S 45 E 7	S 16 E 64	S 26 E 37
25	N 44 W 14	N 66 W 12	S 36 E 30	N 12 W 32	N 37 W 33	S 18 E 20	N 74 E 28	S 38 E 70	S 70 E 41	S 45 E 7	S 22 E 62	S 49 E 37
27½	N 32 W 23	N 80 W 12	S 38 E 29	N 07 W 36	N 45 W 30	S 19 E 24	S 23 E 15	S 44 E 65	E 41	S 74 E 26	S 34 E 61	S 79 E 31
30	N 30 W 27	S 72 W 15	S 15 E 25	N 02 E 35	N 45 W 27	S 07 E 21	S 22 E 15	S 43 E 63	N 72 E 37	S 74 E 25	S 34 E 60	N 78 E 33
	8 3^{49} a	**8** 7^{44} a	**8** 11^{42} a	**8** 3^{45} p	**8** 7^{38} p	**8** 11^{40} p	**17** 3^{44} a	**17** 7^{44} a	**17** 11^{49} a	**17** 3^{49} p	**17** 7^{38} p	**17** 11^{38} p
2½	S 17 E 11	N 32 W 46	N 70 E 20	N 33 E 14	N 66 W 48	S 67 E 14	N 30 W 37	S 60 E 46	S 58 E 11	N 23 W 46	N 80 E 19	S 43 E 25
5	S 12 W 16	N 30 W 55	N 67 E 24	N 04 W 19	N 60 W 58	S 74 E 20	N 32 W 37	S 66 E 39	S 63 E 11	N 35 W 52	N 81 E 30	S 42 E 25
10	S 24 W 21	N 30 W 57	N 72 E 22	N 08 W 10	N 46 W 59	S 80 E 20	N 33 W 34	S 82 E 38	S 23 E 11	N 36 W 50	E 21	S 44 E 24
15	S 23 W 17	N 28 W 62	N 73 E 26	N 57 W 14	N 40 W 57	S 84 E 20	N 44 W 30	S 35 E 33	N 30 W 1	N 44 W 46	N 70 E 6	S 18 E 13
20	N 58 W 11	N 32 W 54	S 70 E 21	N 38 W 33	N 36 W 68	S 76 E 10	N 40 W 26	S 24 E 30	N 24 W 11	N 54 W 47	S 36 E 17	N 34 W 5
25	N 20 W 15	N 32 W 43	S 30 E 20	N 24 W 34	N 31 W 61	S 14 E 13	N 63 W 20	S 09 E 30	N 11 W 19	N 40 W 38	S 26 W 12	N 49 E 8
27½	N 10 W 20	N 37 W 35	S 17 E 14	N 16 W 36	N 30 W 45	S 03 W 15	N 56 W 13	S 18 E 29	N 19 E 24	N 14 W 31	W 5	N 16 W 18
30	N 07 W 20	N 38 W 21	S 20 E 14	N 12 W 36	N 30 W 37	S 04 W 18	S 38 W 4	S 48 E 29	N 40 E 23	N 16 W 31	W 5	N 10
	9 3^{39} a	**9** 7^{49} a	**9** 11^{44} a	**9** 3^{44} p	**9** 7^{44} p	**9** 11^{38} p	**18** 3^{38} a	**18** 7^{49} a	**18** 11^{49} a	**18** 3^{48} p	**18** 7^{49} p	**18** 11^{39} p
2½	S 25 E 25	N 28 W 48	N 71 E 22	N 87 E 11	N 25 W 51	S 82 E 11	N 68 W 25	N 25 E 19	S 43 E 19	N 67 W 40	N 37 E 16	S 21 E 37
5	S 38 E 29	N 58 W 46	N 73 E 25	N 89 E 6	N 22 W 54	N 31 E 16	N 66 W 40	N 21 E 24	S 43 E 19	N 66 W 37	N 07 E 20	S 25 E 46
10	S 05 E 24	N 46 W 52	N 78 E 24	N 87 E 7	N 30 W 57	N 28 E 15	N 73 W 45	S 24 W 3	S 35 E 15	N 60 W 46	N 06 E 21	S 10 E 41
15	S 06 W 14	N 23 W 50	N 66 E 25	N 76 E 13	N 30 W 61	N 22 E 20	N 65 W 44	N 86 E 18	S 61 W 11	N 49 W 50	N 10 W 15	S 03 E 37
20	S 24 W 9	N 25 W 44	N 41 E 20	N 16 E 30	N 29 W 67	N 25 W 20	N 39 W 43	S 37 W 20	S 87 W 15	N 44 W 55	S 64 W 16	S 03 E 23
25	S 38 E 8	N 20 W 30	N 58 E 12	N 03 E 25	N 28 W 51	N 43 W 23	N 02 W 36	S 44 W 3	N 41 W 13	N 41 W 49	S 67 W 20	S 57 W 5
27½	S 55 E 5	N 18 W 24	S 69 W 7	N 03 W 31	N 26 W 57	N 80 W 11	N 02 E 29	S 44 W 3	N 32 W 15	N 28 W 43	S 63 W 20	S 06 E 17
30	S 86 E 12	N 10 W 14	S 69 W 7	N 15 W 24	N 21 W 56	S 05 W 5	N 12 E 20	S 24 W 12	N 21 W 18	N 28 W 45	S 02 E 17	S 02 E 14
	10 3^{40} a	**10** 7^{38} a	**10** 11^{49} a	**10** 3^{48} p	**10** 7^{49} p	**10** 11^{44} p	**19** 3^{44} a	**19** 7^{49} a	**19** 11^{45} a	**19** 3^{45} p	**19** 7^{45} p	**19** 11^{49} p
2½	S 11 E 35	N 88 W 25	0	S 25 E 25	N 40 W 33	N 20 W 30	N 88 W 25	N 55 E 24	S 28 E 59	N 45 W 33	N 28 W 30	S 28 E 85
5	S 08 E 37	N 86 W 33	N 16 W 24	S 28 E 25	N 48 W 39	N 23 W 31	N 80 W 33	N 27 E 18	S 30 E 58	N 45 W 32	N 02 W 29	S 26 E 78
10	S 14 E 33	N 86 W 34	N 26 W 33	S 26 E 30	N 43 W 43	N 29 W 36	N 72 W 23	N 38 E 18	S 16 E 56	N 46 W 38	N 22	S 21 E 82
15	S 11 E 21	N 73 W 30	N 01 W 33	S 30 E 23	N 38 W 44	N 25 W 22	N 63 W 23	S 50 E 11	S 30 E 44	N 40 W 37	N 14 W 21	S 11 E 70
20	S 22 E 13	N 12 W 23	N 06 E 20	S 43 E 23	N 32 W 49	N 06 E 9	N 30 W 13	S 34 E 20	S 25 E 43	N 09 W 37	N 30 W 21	S 24 E 57
25	S 18 E 9	N 15 W 23	S 14 W 15	S 40 E 10	N 34 W 49	N 70 E 10	N 25 E 16	S 30 E 19	S 22 E 24	N 06 E 37	N 42 W 15	S 28 E 39
27½	S 32 E 10	N 16 W 19	S 22 E 16	N 36 W 7	N 31 W 47	S 71 E 21	N 46 E 9	S 21 E 19	S 40 E 30	N 26 E 30	N 60 W 21	S 27 E 34
30	S 51 E 10	N 16 W 17	S 16	N 36 W 7	N 26 W 38	S 34 E 28	N 47 E 9	S 08 E 19	S 58 E 30	N 04 E 29	N 78 W 21	S 35 E 19
	11 3^{39} a	**11** 7^{40} a	**11** 11^{44} a	**11** 3^{45} p	**11** 7^{44} p	**11** 11^{49} p	**20** 3^{38} a	**20** 7^{46} a	**20** 11^{49} a	**20** 3^{45} p	**20** 7^{49} p	**20** 11^{45} p
2½	S 25 E 48	S 89 W 11	N 41 W 34	S 43 E 42	N 23 W 21	N 36 W 40	N 53 W 33	N 58 W 11	S 33 E 70	N 83 W 30	N 53 W 33	S 11 E 48
5	S 20 E 48	N 82 W 13	N 39 W 37	S 55 E 39	N 34 W 25	N 37 W 49	N 87 W 47	0	S 23 E 69	N 57 W 29	N 50 W 32	S 15 E 58
10	S 35 E 51	N 73 W 19	N 36 W 30	S 54 E 43	N 22 W 30	N 37 W 48	S 86 W 51	S 37 W 11	S 21 E 71	N 57 W 28	N 48 W 23	S 06 E 57
15	S 19 E 50	N 69 W 20	N 32 W 30	S 42 E 31	N 23 W 38	N 33 W 46	S 76 W 49	N 85 W 11	S 52 E 54	N 54 W 37	N 04 E 32	S 59 E 45
20	S 25 E 44	N 41 W 20	N 41 W 21	S 24 E 29	N 20 W 44	N 23 W 27	N 40 W 30	N 74 W 13	S 49 E 41	N 38 W 36	N 05 E 45	S 56 E 44
25	S 25 E 35	N 10 W 14	S 38 E 9	S 15 E 29	N 17 W 43	N 34 W 22	S 88 E 15	S 40 W 18	S 62 E 27	N 20 W 35	N 02 W 58	S 69 E 31
27½	S 35 E 43	N 17 E 12	S 38 E 9	S 25 E 28	N 10 W 35	N 39 W 16	N 34 E 17	S 46 W 18	S 65 E 27	N 35	N 02 W 49	S 56 E 24
30	S 32 E 39	N 34 E 14	S 10 W 13	S 38 E 20	N 04 W 35	N 48 W 11	N 77 E 28	S 19 W 13	S 44 E 20	N 06 E 35	N 16 W 48	S 66 E 14

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	**21** 3^{49} a	**21** 7^{44} a	**21** 11^{45} a	**21** 3^{49} p	**21** 7^{44} p	**21** 11^{49} p	**30** 3^{38} a	**30** 7^{48} a	**30** 11^{49} a	**30** 3^{45} p	**30** 7^{49} p	**30** 11^{45} p
$2^1/_2$	N 79 W 46	N 23 W 59	S 33 E 40	N 62 W 36	N 43 W 48	S 57 E 33	S 43 E 14	S 23 E 36	N 49 E 33	N 12 E 24	S 33 E 44	S 77 W 19
5	N 68 W 52	N 24 W 62	S 69 E 32	N 41 W 48	N 46 W 69	S 53 E 39	S 68 E 22	S 21 E 42	N 52 E 24	N 37 E 23	S 34 E 46	S 88 W 19
10	N 66 W 50	N 20 W 63	S 64 E 34	N 51 W 46	N 39 W 67	S 37 E 38	S 54 E 26	S 20 E 52	N 52 E 24	N 38 E 19	S 37 E 46	N 40 W 18
15	N 82 W 51	N 25 W 63	S 76 E 30	N 33 W 50	N 22 W 71	S 56 E 30	S 59 E 23	S 18 E 38	N 41 E 20	N 69 E 9	S 48 E 45	N 29 W 15
20	N 44 W 47	N 46 W 53	S 68 E 21	N 04 W 49	N 33 W 68	S 36 E 30	S 50 E 30	S 30 E 43	N 36 E 13	S 39 W 4	S 37 E 32	N 17 W 23
25	N 03 E 47	N 60 W 45	S 50 E 10	N 07 E 55	N 44 W 59	S 26 E 31	S 36 E 28	S 58 E 45	N 31 E 13	S 15 W 17	S 31 E 25	N 15 E 29
$27^1/_2$	N 04 W 42	N 72 W 35	S 26 E 15	N 12 E 54	N 35 W 35	S 18 E 31	S 18 E 33	S 49 E 32	N 31 E 12	S 33 W 20	S 50 E 25	N 20 E 28
30	N 14 W 40	N 74 W 27	S 09 E 11	N 09 E 45	N 30 W 22	S 20 E 29	S 10 E 32	S 52 E 20	N 31 E 12	S 32 W 20	S 45 E 22	N 34 E 28
	22 3^{45} a	**22** 7^{48} a	**22** 11^{42} a	**22** 3^{44} p	**22** 7^{42} p	**22** 11^{48} p	**31** 3^{48} a	**31** 7^{44} a	**31** 11^{49} a	**31** 3^{49} p	**31** 7^{46} p	**31** 11^{45} p
$2^1/_2$	S 44 W 19	N 58 W 40	S 34 E 61	S 28 E 30	N 01 W 31	S 38 E 33	S 78 W 27	S 41 E 55	0	N 27 W 46	S 38 E 36	S 30 W 24
5	S 64 W 19	N 53 W 39	S 53 E 56	S 25 E 18	N 42 W 48	S 43 E 32	S 35 W 33	S 39 E 47	N 64 W 7	N 32 W 45	S 37 E 48	S 30 W 23
10	N 70 W 18	N 53 W 42	S 58 E 61	S 53 W 14	N 44 W 51	S 16 E 39	S 22 W 29	S 35 E 46	N 64 W 13	N 34 W 30	S 27 E 51	S 20 W 20
15	N 46 W 18	N 66 W 40	S 54 E 53	N 73 W 19	N 38 W 50	S 24 E 38	N 32 E 6	S 25 E 52	N 56 W 20	N 15 W 15	S 18 E 50	S 63 W 9
20	N 44 W 17	N 40 W 31	S 39 E 49	N 45 W 30	N 42 W 50	S 40 E 29	N 73 E 9	S 19 E 46	N 32 W 21	S 30 E 9	S 21 E 26	S 63 W 9
25	N 18	S 77 W 29	S 28 E 70	N 26 W 34	N 44 W 48	S 72 E 10	N 77 E 18	S 23 E 37	N 16 W 25	S 30 E 9	S 11 E 31	N 31 E 20
$27^1/_2$	S 70 E 5	S 65 W 17	S 26 E 67	N 21 W 33	N 39 W 46	N 30 W 10	N 79 E 18	S 28 E 26	N 11 W 32	S 45 W 16	S 18 E 30	N 50 E 25
30	S 70 E 5	S 41 W 11	S 23 E 53	N 12 W 33	N 36 W 42	N 12 E 11	N 78 E 19	S 36 E 23	N 03 W 27	S 52 W 17	S 24 E 21	N 49 E 27
	23 3^{49} a	**23** 7^{45} a	**23** 11^{49} a	**23** 3^{42} p	**23** 7^{49} p	**23** 11^{44} p	**1** 3^{45} a	**1** 7^{48} a	**1** 11^{49} a	**1** 3^{48} p	**1** 7^{44} p	**1** 11^{45} p
$2^1/_2$	N 58 W 30	N 28 W 76	N 44 E 18	N 55 W 27	N 33 W 67	0	N 41 W 25	S 28 E 67	S 17 W 34	N 23 W 36	S 16 E 60	S 02 W 57
5	N 50 W 29	N 22 W 74	N 41 E 25	N 41 W 25	N 32 W 66	S 09 E 14	N 30 W 32	S 24 E 74	S 20 W 38	N 23 W 35	S 16 E 70	S 13 W 66
10	N 52 W 31	N 20 W 80	N 42 E 39	N 41 W 21	N 41 W 73	S 06 W 22	N 34 W 38	S 48 E 73	S 25 W 37	N 32 W 45	S 22 E 73	S 01 W 50
15	N 42 W 33	N 24 W 78	N 66 E 38	N 56 W 23	N 36 W 79	S 10 W 20	N 32 W 37	S 40 E 64	S 01 E 34	N 42 W 29	S 30 E 61	S 01 E 54
20	N 48 W 32	N 09 W 57	S 70 E 31	N 40 W 21	N 35 W 73	S 50 W 9	N 14 W 21	S 39 E 62	S 19 E 20	S 61 W 19	S 30 E 63	S 08 E 53
25	N 40 W 32	N 42 W 57	S 54 E 26	N 34 W 24	N 33 W 56	N 10 E 4	S 32 E 10	S 27 E 53	N 55 E 20	S 68 W 14	S 19 E 61	S 71 E 44
$27^1/_2$	N 54 W 31	N 39 W 44	S 47 E 26	N 44 W 31	N 34 W 40	N 10 E 4	S 32 E 10	S 26 E 37	N 74 E 30	S 48 W 10	S 09 E 57	N 88 E 46
30	N 29 W 31	N 36 W 43	S 46 E 26	N 40 W 30	N 31 W 36	N 10 E 4	S 32 E 10	S 17 E 36	N 76 E 34	S 39 E 8	S 12 E 47	N 65 E 45
	24 3^{44} a	**24** 7^{49} a	**24** 11^{45} a	**24** 3^{49} p	**24** 7^{45} p	**24** 11^{49} p	**2** 3^{49} a	**2** 7^{45} a	**2** 11^{48} a	**2** 3^{49} p	**2** 7^{49} p	**2** 11^{49} p
$2^1/_2$	S 09 W 7	N 38 W 37	S 67 E 19	S 03 E 16	N 66 W 46	N 08 W 18	N 37 W 33	S 43 E 70	S 07 W 40	N 53 W 51	S 33 E 25	S 01 E 49
5	S 07 W 16	N 30 W 39	S 69 E 19	S 14 E 13	N 57 W 52	N 06 W 18	S 83 W 25	S 43 E 69	S 08 E 39	N 39 W 67	S 45 E 29	S 08 E 50
10	S 03 E 22	N 39 W 31	S 56 E 23	S 04 E 17	N 55 W 50	S 86 E 20	S 83 W 24	S 44 E 66	S 01 E 37	N 38 W 69	S 64 E 19	S 22 E 50
15	S 45 W 13	N 43 W 22	S 39 E 28	S 04 W 18	N 54 W 48	S 04 E 26	S 10 W 21	S 33 E 53	S 14 E 44	N 45 W 40	S 40 E 16	S 27 E 43
20	S 28 E 4	N 43 W 18	S 40 E 33	S 44 E 15	N 57 W 46	S 23 E 25	N 82 E 18	S 37 E 40	S 36 E 38	N 25 W 17	S 37 W 15	S 33 E 30
25	S 70 E 5	N 30 W 10	S 29 E 36	S 69 E 18	N 43 W 45	S 32 E 28	N 82 E 4	S 25 E 39	S 54 E 31	N 87 E 2	S 26 W 24	S 41 E 22
$27^1/_2$	N 60 E 6	N 16 W 10	S 32 E 36	N 74 E 19	N 39 W 38	S 25 E 28	N 82 E 4	S 23 E 51	N 89 E 31	N 40 W 16	S 24 W 24	S 51 E 17
30	N 09 E 4	S 36 E 9	S 32 E 35	N 75 E 20	N 52 W 37	S 14 E 27	N 82 E 4	S 60 E 25	N 87 E 30	N 60 W 11	S 09 W 25	S 61 E 9
	25 3^{40} a	**25** 7^{45} a	**25** 11^{45} a	**25** 3^{49} p	**25** 7^{49} p	**25** 11^{45} p	**3** 3^{49} a	**3** 7^{42} a	**3** 11^{45} a	**3** 3^{49} p	**3** 7^{46} p	**3** 11^{49} p
$2^1/_2$	S 16 E 27	N 68 W 29	N 21 W 19	S 38 E 16	N 33 W 40	N 19 W 30	N 42 W 40	S 89 E 14	S 35 E 40	N 08 W 53	N 06 W 19	S 15 E 59
5	S 18 E 33	N 78 W 25	N 03 W 19	S 45 E 19	N 53 W 46	N 10 W 29	N 52 W 46	N 53 E 16	S 15 E 32	N 31 W 52	N 23 W 30	S 21 E 63
10	S 20 E 36	N 74 W 24	N 18	S 22 E 13	N 34 W 44	N 10 W 22	N 72 W 44	N 37 E 18	S 14 E 31	N 31 W 50	N 22 W 33	S 20 E 52
15	S 13 E 37	N 56 W 27	N 50 E 18	S 30 E 18	N 36 W 43	N 08 W 16	N 25 W 17	S 58 E 7	S 63 E 19	N 21 W 45	N 65 W 21	S 12 E 39
20	S 13 E 35	N 52 W 26	N 21 E 17	S 25 E 9	N 20 W 44	S 35 W 13	N 20 E 9	S 01 E 11	S 70 E 12	N 09 W 37	N 74 W 21	S 14 E 30
25	S 37 E 22	N 44 W 30	N 27 E 22	S 89 E 10	N 24 W 44	S 35 W 13	N 80 E 10	S 01 E 11	S 83 E 13	N 01 E 32	S 64 W 17	S 19 E 20
$27^1/_2$	S 32 E 19	N 10 E 39	N 27 E 21	N 56 E 11	N 18 W 46	S 45 W 20	N 79 E 9	S 27 W 12	N 30 W 8	N 01 E 29	S 60 W 17	S 26 E 20
30	S 60 E 14	N 13 E 31	N 29 E 21	N 45 E 11	N 27 W 45	S 45 W 20	N 79 E 9	S 11 E 11	N 30 W 8	N 27	S 78 W 16	S 29 E 17
	26 3^{49} a	**26** 7^{48} a	**26** 11^{45} a	**26** 3^{49} p	**26** 7^{44} p	**26** 11^{49} p	**4** 3^{42} a	**4** 7^{42} a	**4** 11^{49} a	**4** 3^{45} p	**4** 7^{42} p	**4** 11^{49} p
$2^1/_2$	S 24 E 33	N 85 W 25	N 53 W 30	S 36 E 38	N 89 W 21	N 60 W 40	S 60 E 25	0	S 28 E 80	S 42 W 40	S 58 W 25	S 33 E 35
5	S 38 E 34	N 80 W 25	N 55 W 29	S 49 E 32	N 69 W 25	N 47 W 32	S 64 E 33	N 22 E 11	S 22 E 78	S 47 W 46	N 55 W 29	S 31 E 33
10	S 31 E 33	N 76 W 32	N 30 W 17	S 47 E 35	N 63 W 28	N 14 W 24	S 83 E 33	N 25 E 19	S 30 E 71	S 42 W 44	N 30 W 28	S 20 E 79
15	S 22 E 30	N 63 W 23	S 49 E 5	S 40 E 33	N 30 W 32	S 41 E 6	N 86 E 29	N 16 E 8	S 29 E 62	S 67 W 29	N 12 W 29	S 11 E 77
20	S 25 E 27	N 56 W 26	S 15 E 13	S 30 E 26	N 22 W 31	S 41 E 6	N 78 E 14	S 50 W 10	S 38 E 56	S 57 W 29	S 80 W 31	S 19 E 74
25	S 12 E 15	N 51 W 30	S 16 E 13	S 29 E 17	N 23 W 29	S 41 E 6	N 26 E 20	S 36 W 11	S 42 E 41	N 07 E 44	N 48 W 30	S 31 E 62
$27^1/_2$	S 10 E 15	N 38 W 37	S 03 E 20	S 10 E 15	N 10 W 30	S 52 W 15	N 20 E 19	S 10 W 6	S 26 E 35	N 04 E 43	N 70 W 30	S 44 E 62
30	S 16 E 17	N 26 W 37	S 07 W 19	S 26 E 10	N 03 E 30	S 28 W 20	N 16	S 14 W 16	S 30 E 18	N 07 W 34	S 75 W 33	S 47 E 61
	27 3^{45} a	**27** 7^{49} a	**27** 11^{42} a	**27** 3^{49} p	**27** 7^{42} p	**27** 11^{39} p	**5** 3^{49} a	**5** 7^{42} a	**5** 11^{44} a	**5** 3^{44} p	**5** 7^{43} p	**5** 11^{49} p
$2^1/_2$	S 48 E 33	0	N 49 W 21	S 48 E 25	N 33 W 11	S 65 W 18	S 27 W 40	N 05 E 24	S 33 E 67	N 71 W 25	N 18 W 36	S 30 E 58
5	S 37 E 39	S 89 W 16	N 50 W 26	S 53 E 33	N 14 W 11	N 86 W 25	S 25 W 46	N 03 W 33	S 34 E 75	N 77 W 36	N 27 W 36	S 31 E 75
10	S 40 E 45	W 21	N 26 W 22	S 31 E 38	N 20 W 19	N 43 W 25	S 36 W 44	N 39 W 33	S 36 E 67	N 54 W 42	N 44 W 40	S 30 E 73
15	S 30 E 44	N 56 W 24	N 15 W 21	S 32 E 44	N 23 W 20	N 30 W 28	S 40 W 43	N 30 W 21	S 33 E 68	N 23 W 31	N 35 W 46	S 22 E 64
20	S 16 E 36	N 11 W 24	S 46 E 10	S 30 E 49	N 34 W 20	N 28 W 13	S 03 W 35	N 10 E 15	S 35 E 58	N 30	N 33 W 40	S 30 E 53
25	S 09 E 28	N 01 W 24	S 21 E 17	S 30 E 45	N 04 W 26	S 45 W 9	S 33 E 36	S 18 E 7	S 33 E 50	N 05 W 33	N 38 W 44	S 14 E 58
$27^1/_2$	S 09 E 27	N 10 E 20	S 16 E 20	S 43 E 41	N 07 E 26	S 45 W 9	S 65 E 36	S 52 W 11	S 38 E 50	N 07 W 35	N 38 W 42	S 18 E 57
30	S 04 E 27	N 16 E 17	S 11 E 20	S 42 E 30	N 09 E 31	S 44 W 9	N 78 E 40	S 54 W 13	S 41 E 40	N 05 W 29	N 45 W 31	S 06 E 50
	28 3^{49} a	**28** 7^{46} a	**28** 11^{49} a	**28** 3^{42} p	**28** 7^{49} p	**28** 11^{40} p	**6** 3^{45} a	**6** 7^{49} a	**6** 11^{48} a	**6** 3^{44} p	**6** 7^{42} p	**6** 11^{49} p
$2^1/_2$	S 28 E 25	S 05 E 19	N 73 W 25	S 17 E 73	S 03 E 46	N 56 W 24	S 18 W 33	N 05 W 25	S 25 E 64	0	N 13 W 48	S 33 E 31
5	S 24 E 29	S 06 E 19	N 62 W 21	S 19 E 74	S 24 W 39	N 78 W 25	S 29 W 32	N 21 W 33	S 42 E 67	N 28 W 19	N 15 W 58	S 33 E 43
10	S 37 E 42	S 39 W 18	N 57 W 20	S 30 E 56	S 28 W 38	N 70 W 26	S 30 W 38	S 70 W 33	S 43 E 77	N 75 W 18	N 20 W 64	S 35 E 45
15	S 28 E 41	S 74 W 10	N 16 W 32	S 40 E 58	S 51 W 34	N 66 W 27	S 43 W 37	S 57 W 24	S 48 E 70	S 55 W 15	N 20 W 61	S 22 E 37
20	S 28 E 50	N 83 W 19	N 40 W 13	S 35 E 57	S 20 E 30	N 68 W 24	S 30 E 24	S 20 E 6	S 35 E 45	N 22 W 18	N 19 W 57	S 21 E 33
25	S 15 E 48	N 35 E 4	N 71 E 12	S 35 E 57	S 19 W 29	N 72 W 22	S 45 E 23	S 13 E 21	S 37 E 48	N 40 E 30	N 27 W 48	S 25 E 31
$27^1/_2$	S 14 E 34	S 71 E 19	S 20 E 18	S 27 E 54	S 46 W 29	N 86 W 20	S 64 E 24	S 85 W 23	S 49 E 39	N 33 E 34	N 29 W 42	S 10 E 27
30	S 30	N 53 E 20	S 40 E 11	S 27 E 57	N 66 E 36	N 68 W 24	N 86 E 27	N 75 W 13	S 50 E 31	N 23 E 38	N 37 W 41	S 10 E 27
	29 3^{39} a	**29** 7^{49} a	**29** 11^{45} a	**29** 3^{49} p	**29** 7^{45} p	**29** 11^{49} p	**7** 3^{39} a	**7** 7^{45} a	**7** 11^{49} a	**7** 3^{50} p	**7** 7^{49} p	**7** 11^{49} p
$2^1/_2$	S 28 E 76	S 07 W 48	S 72 W 25	S 24 E 85	S 03 E 48	N 53 W 21	S 01 E 50	N 65 W 33	S 53 E 40	S 20 W 26	N 18 W 25	S 71 E 22
5	S 26 E 79	S 58	S 74 W 25	S 29 E 65	S 01 E 48	N 72 W 21	S 04 E 52	N 61 W 32	S 63 E 50	S 10 W 32	N 27 W 46	S 70 E 24
10	S 18 E 72	S 13 W 57	S 80 W 24	S 35 E 64	S 07 W 46	N 75 W 24	S 11 W 46	N 63 W 32	S 76 E 42	S 02 E 31	N 26 W 51	S 57 E 19
15	S 19 E 65	S 48 E 56	S 48 W 31	S 20 E 61	S 05 E 56	N 56 W 14	S 11 E 35	N 83 W 31	S 72 E 40	S 04 E 15	N 41 W 55	S 70 E 18
20	S 19 E 58	S 55 E 44	S 34 W 23	S 20 E 54	S 50 E 45	S 89 E 18	S 29 E 18	N 20 W 22	S 15 E 43	N 18	N 43 W 55	N 56 W 14
25	S 14 E 46	S 72 E 44	S 02 W 23	S 19 E 53	S 62 E 33	S 88 E 17	N 01 W 14	N 28 E 15	S 20 E 34	N 07 E 20	N 47 W 52	N 68 W 16
$27^1/_2$	S 28 E 44	S 72 E 31	S 06 W 19	S 43 E 52	S 69 E 33	N 80 E 17	N 01 W 14	N 26 E 24	S 21 E 34	N 05 E 20	N 47 W 48	S 38 W 17
30	S 35 E 29	S 64 E 24	S 50 E 21	S 25 E 38	S 74 E 32	S 82 E 20	N 35 E 21	N 35 E 25	S 23 E 29	N 05 E 26	N 38 W 45	S 42 W 29

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	**8** 3^{39} a	**8** 7^{44} a	**8** 11^{45} a	**8** 3^{45} p	**8** 7^{45} p	**8** 11^{49} p	**17** 3^{39} a	**17** 7^{45} a	**17** 11^{49} a	**17** 3^{48} p	**17** 7^{49} p	**17** 11^{38} p
2½	S 03 E 33	N 49 W 40	N 87 E 25	S 23 E 40	N 31 W 40	N 26 W 36	0	S 27 E 30	S 13 E 59	N 19 W 53	N 33 W 18	S 22 E 55
5	S 08 E 46	N 41 W 46	N 81 E 25	S 25 E 43	N 54 W 46	N 05 E 32	S 50 W 21	S 28 E 29	S 13 E 69	N 21 W 54	N 79 W 25	S 18 E 65
10	S 06 E 45	N 32 W 48	S 88 E 24	S 29 E 37	N 47 W 50	N 07 W 27	S 73 W 24	S 12 E 33	S 13 E 67	N 41 W 57	N 72 W 22	S 16 E 62
15	S 03 E 49	N 14 W 49	S 81 E 13	S 65 E 11	N 54 W 49	N 10 W 31	S 68 W 32	S 10 W 33	S 40 E 71	N 39 W 55	N 15 E 23	S 10 E 54
20	S 02 E 27	N 01 E 48	S 51 E 13	S 82 E 5	N 34 W 42	N 33 W 22	N 49 E 30	S 07 E 36	S 50 E 73	N 22 W 49	N 66 E 19	S 24 E 48
25	S 17 W 10	N 38 E 43	S 38 E 20	N 79 E 13	N 15 W 42	N 79 W 23	N 66 E 27	S 26 E 35	S 34 E 71	N 20 W 46	S 47 W 18	S 31 E 47
27½	S 57 E 5	N 12 E 29	S 17 E 24	S 82 E 17	N 08 W 41	N 83 W 20	N 56 E 17	S 32 E 34	S 34 E 69	N 16 E 45	S 67 W 28	S 15 E 36
30	N 34 E 9	N 17 E 24	S 23 E 32	N 58 E 14	N 05 W 40	S 57 W 20	N 62 E 20	S 35 E 33	S 59 E 46	N 37 E 42	S 30 W 29	S 07 E 26
	9 3^{42} a	**9** 7^{38} a	**9** 11^{49} a	**9** 3^{45} p	**9** 7^{39} p	**9** 11^{45} p	**18** 3^{49} a	**18** 7^{39} a	**18** 11^{48} a	**18** 3^{50} p	**18** 7^{38} p	**18** 11^{49} p
2½	S 28 E 52	N 69 W 25	N 33 W 16	S 38 E 46	N 40 W 33	N 15 W 30	S 21 W 33	N 38 W 11	S 23 E 66	S 87 W 25	N 25 W 44	S 38 E 70
5	S 21 E 53	N 58 W 25	N 01 W 20	S 22 E 45	N 42 W 35	N 17 W 29	S 45 W 30	N 23 W 11	S 21 E 65	N 61 W 25	N 22 W 43	S 31 E 69
10	S 23 E 46	N 63 W 39	N 10 E 23	S 24 E 44	N 39 W 38	N 16 W 33	S 64 W 29	N 15 W 19	S 27 E 58	N 75 W 28	N 20 W 37	S 33 E 77
15	S 22 E 37	N 31 W 38	N 10 E 24	S 24 E 43	N 36 W 37	N 38 W 33	N 52 E 6	S 16 E 3	S 26 E 50	N 54 W 38	N 14 W 32	S 33 E 64
20	S 12 E 37	N 10 W 43	N 28 W 8	S 11 E 34	N 17 W 41	N 40 W 36	N 53 E 27	S 40 E 15	S 20 E 39	N 06 W 27	N 12 W 27	S 33 E 57
25	S 01 E 29	N 27 W 36	S 75 W 12	S 31 E 26	N 13 W 49	N 46 W 34	N 46 E 27	S 24 E 24	S 21 E 33	N 23 E 31	N 17 W 22	S 38 E 48
27½	S 29 E 17	N 16 W 27	S 54 W 16	S 57 E 17	N 15 W 42	N 34 W 33	N 30 E 22	S 50 E 24	S 21 E 37	N 17 W 29	N 59 W 20	S 17 E 36
30	S 55 E 16	N 11 E 20	S 57 W 20	S 59 E 17	N 16 W 40	N 52 W 28	N 36 E 22	S 49 E 23	S 36 E 39	N 14 W 29	W 21	S 18 E 22
	10 3^{48} a	**10** 7^{42} a	**10** 11^{43} a	**10** 3^{44} p	**10** 7^{38} p	**10** 11^{38} p	**19** 3^{49} a	**19** 7^{46} a	**19** 11^{49} a	**19** 3^{45} p	**19** 7^{40} p	**19** 11^{45} p
2½	S 52 E 29	N 15 W 25	N 28 W 31	S 46 E 34	N 29 W 19	N 40 W 33	N 49 W 25	0	S 33 E 64	N 60 W 19	N 41 W 19	S 53 E 48
5	S 40 E 33	N 33 W 42	N 29 W 37	S 41 E 33	N 41 W 24	N 40 W 46	N 56 W 25	N 40 W 11	S 29 E 73	N 73 W 19	N 49 W 24	S 41 E 58
10	S 38 E 36	N 38 W 44	N 22 W 42	S 46 E 33	N 34 W 25	N 31 W 44	N 62 W 29	N 23 W 19	S 19 E 70	N 71 W 23	N 41 W 25	S 24 E 57
15	S 32 E 32	N 48 W 37	N 31 W 37	S 50 E 20	N 31 W 23	N 27 W 47	N 37 W 34	S 25 E 2	S 60 E 67	N 15 W 17	N 31 W 28	S 26 E 55
20	S 36 E 30	N 25 W 44	N 27 W 23	S 20 E 14	N 24 W 27	N 32 W 34	N 20 W 33	S 08 W 12	S 43 E 61	N 04 W 14	N 10 W 16	S 34 E 43
25	S 33 E 29	N 25 W 42	S 40 W 13	S 37 E 20	N 17 W 36	N 46 W 29	N 29 W 28	S 03 E 15	S 34 E 59	N 05 E 17	N 43 W 15	S 31 E 29
27½	S 15 E 16	N 18 W 39	N 81 W 12	S 45 E 20	N 20 W 37	N 57 W 20	N 27 W 20	N 02 W 14	S 27 E 58	N 15 E 22	N 51 W 15	S 19 E 29
30	S 10 E 16	N 08 W 41	N 89 W 10	S 37 E 17	N 25 W 39	N 67 W 17	N 10 W 21	S 05 E 19	S 31 E 51	N 26 E 29	N 68 W 6	S 18 E 29
	11 3^{45} a	**11** 7^{49} a	**11** 11^{42} a	**11** 3^{52} p	**11** 7^{40} p	**11** 11^{38} p	**20** 3^{48} a	**20** 7^{44} a	**20** 11^{38} a	**20** 3^{49} p	**20** 7^{40} p	**20** 11^{40} p
2½	S 33 E 25	0	N 11 E 30	S 15 E 29	0	N 41 W 33	S 33 W 24	N 40 W 30	S 52 E 70	N 61 W 25	N 41 W 25	S 45 E 36
5	S 33 E 25	N 53 W 16	N 47 W 30	S 22 E 29	0	N 39 W 32	S 28 W 23	N 42 W 31	S 53 E 75	N 47 W 24	N 21 W 39	S 44 E 59
10	S 35 E 28	N 37 W 21	N 48 W 37	S 31 E 28	N 67 W 7	N 36 W 45	S 30 W 21	N 17 W 24	S 46 E 76	N 52 W 29	N 15 W 43	S 38 E 57
15	S 44 E 27	N 18 W 21	N 46 W 33	S 40 E 23	N 56 W 7	N 13 W 40	S 22 W 21	N 20	S 33 E 63	N 35 W 33	N 18 W 30	S 49 E 51
20	S 18 E 22	N 21 W 20	N 44 W 28	S 39 E 20	S 60 E 1	N 27 W 29	S 47 W 20	N 32 E 14	S 29 E 61	N 21 W 37	N 36 W 29	S 11 E 31
25	S 09 E 19	N 19 W 21	N 37 W 24	S 38 E 20	S 60 E 1	N 31 W 22	N 14 E 24	S 25 E 6	S 20 E 36	N 22 W 37	N 44 W 23	S 11 E 24
27½	S 01 E 12	N 29 W 24	N 38 W 21	S 36 E 25	S 60 E 1	N 30 W 22	N 38 E 25	S 25 E 6	S 49 E 31	N 07 E 42	N 32 W 24	S 22 E 24
30	S 11	N 23 W 24	N 40 W 20	S 44 E 23	N 24 E 7	N 24 W 21	N 39 E 26	S 32 W 12	S 35 E 27	N 12 E 45	N 31 W 19	N 38 W 17
	12 3^{38} a	**12** 7^{45} a	**12** 11^{49} a	**12** 3^{52} p	**12** 7^{49} p	**12** 11^{42} p	**21** 3^{45} a	**21** 7^{48} a	**21** 11^{49} a	**21** 3^{48} p	**21** 7^{50} p	**21** 11^{48} p
2½	N 76 E 11	S 05 W 11	N 05 W 21	S 68 E 11	S 10 W 16	N 33 W 42	S 01 E 24	N 53 W 16	S 46 E 55	S 13 E 19	0	S 66 E 48
5	N 83 E 11	0	N 52 W 46	S 77 E 19	S 10 W 20	N 36 W 48	S 16 W 29	N 58 W 31	S 53 E 58	S 14 E 19	N 04 W 21	S 56 E 47
10	S 62 E 14	0	N 47 W 45	S 67 E 12	S 16 E 17	N 33 W 53	S 38 W 28	N 65 W 35	S 50 E 63	S 11 W 18	N 03 W 34	S 64 E 46
15	S 56 E 10	0	N 35 W 43	S 85 E 6	S 26 E 15	N 31 W 56	S 35 W 27	N 25 W 31	S 54 E 63	N 72 W 12	N 24 W 37	S 55 E 50
20	S 79 E 10	0	N 39 W 35	N 70 W 2	S 50 E 12	N 14 W 45	W 22	N 19 E 28	S 52 E 53	N 67 W 12	N 05 E 23	S 38 E 32
25	S 27 E 10	0	N 27 W 26	S 18 W 7	S 55 E 12	N 19 W 42	N 39 W 11	N 07 E 22	S 39 E 51	S 86 W 23	N 08 W 21	S 43 E 32
27½	S 04 W 16	N 49 E 11	N 14 W 17	S 35 W 9	N 10 W 3	N 24 W 34	N 03 W 20	N 20 E 15	S 46 E 46	N 15 E 31	N 35 W 20	S 33 E 32
30	S 18 E 18	N 34 E 11	N 12	S 22 W 16	N 10 W 3	N 06 W 32	N 22 E 27	N 01 W 11	S 33 E 25	N 23 E 34	N 42 W 13	S 16 E 23
	13 3^{39} a	**13** 7^{42} a	**13** 11^{45} a	**13** 3^{50} p	**13** 7^{42} p	**13** 11^{49} p	**22** 3^{40} a	**22** 7^{45} a	**22** 11^{49} a	**22** 3^{45} p	**22** 7^{48} p	**22** 11^{44} p
2½	N 23 W 24	S 38 E 33	N 34 W 33	0	S 23 E 53	S 37 W 25	S 51 E 27	N 24 W 33	N 79 E 40	N 67 E 33	N 13 W 46	S 43 E 25
5	N 44 W 19	S 33 E 40	N 26 W 39	N 59 W 11	S 15 E 52	S 04 W 33	S 88 E 23	N 20 W 39	N 80 E 39	N 82 E 32	N 34 W 52	S 40 E 31
10	N 50 W 20	S 34 E 38	N 12 W 38	N 41 W 19	S 13 E 44	N 12 E 4	S 24 E 23	N 25 W 38	N 84 E 38	N 77 E 20	N 37 W 53	S 33 E 38
15	N 12 W 28	S 42 E 30	N 20 W 37	N 40 W 18	S 15 E 43	N 12 E 4	S 19 E 17	N 28 W 44	N 80 E 44	N 12 W 25	N 49 W 52	S 33 E 43
20	N 15 W 27	S 12 E 30	N 13 W 36	N 53 W 22	S 20 E 47	S 40 W 9	S 30 E 16	N 38 W 49	S 72 E 29	N 16 W 38	N 49 W 79	S 32 E 36
25	N 42 W 20	S 12 E 33	N 27 W 43	N 60 W 22	S 15 E 45	S 20 W 9	N 77 E 17	N 18 W 44	S 34 E 21	N 32 W 45	N 35 W 72	S 15 E 36
27½	N 45 W 20	S 30 E 33	N 25 W 42	N 69 W 22	S 15 E 45	S 25 W 9	N 88 E 13	N 04 W 31	S 35 E 21	N 29 W 48	N 27 W 71	S 10 E 31
30	N 60 W 17	S 27 E 28	N 24 W 34	N 63 W 19	S 07 E 44	N 62 E 22	N 33 W 19	N 02 E 25	S 04 W 24	N 31 W 50	N 17 W 66	S 04 E 24
	14 3^{39} a	**14** 7^{39} a	**14** 11^{48} a	**14** 3^{45} p	**14** 7^{38} p	**14** 11^{45} p	**23** 3^{48} a	**23** 7^{44} a	**23** 11^{45} a	**23** 3^{48} p	**23** 7^{45} p	**23** 11^{48} p
2½	N 59 W 20	S 38 E 59	S 05 W 20	N 48 W 33	S 13 E 33	S 15 E 30	0	N 30 W 36	N 57 E 40	0	N 07 W 36	0
5	N 78 W 23	S 33 E 54	S 70 W 19	N 48 W 32	S 15 E 32	S 07 W 29	N 28 W 19	N 20 W 64	N 55 E 24	N 36 E 16	N 35 W 59	S 46 E 22
10	N 57 W 27	S 37 E 46	S 74 W 18	N 75 W 31	S 72 E 28	S 23 W 33	N 57 W 18	N 42 W 78	N 64 E 23	N 37 E 18	N 34 W 68	S 47 E 22
15	N 54 W 29	S 37 E 45	S 72 W 20	N 71 W 31	S 20 E 38	S 11 W 33	N 60 W 17	N 38 W 69	S 85 E 20	N 10 E 17	N 36 W 66	S 58 E 21
20	N 36 W 27	S 27 E 55	N 11 W 19	N 35 W 30	S 40 E 37	S 40 E 27	N 53 W 20	N 35 W 66	N 12 W 21	N 04 W 21	N 41 W 52	N 50 E 21
25	N 41 W 16	S 26 E 39	N 35 E 31	N 11 W 24	S 17 E 33	S 56 E 20	N 45 W 21	N 51 W 59	N 34 W 21	N 23 W 32	N 30 W 51	N 49 E 17
27½	N 21 W 5	S 26 E 46	N 34 E 36	N 15 W 21	S 18 E 36	S 46 E 20	N 43 W 21	N 43 W 69	N 35 W 24	N 25 W 36	N 30 W 50	N 56 E 17
30	N 20 W 5	S 27 E 38	N 36 E 37	N 13 W 21	S 37 E 35	S 50 E 20	N 43 W 27	N 51 W 61	S 36 W 7	N 19 W 26	N 26 W 44	N 63 E 17
	15 3^{49} a	**15** 7^{42} a	**15** 11^{45} a	**15** 3^{49} p	**15** 7^{44} p	**15** 11^{40} p	**24** 3^{39} a	**24** 7^{48} a	**24** 11^{40} a	**24** 3^{45} p	**24** 7^{39} p	**24** 11^{45} p
2½	N 42 W 16	S 44 E 34	S 13 E 19	N 53 W 29	S 43 E 25	S 11 E 37	S 29 E 30	N 33 W 25	N 79 E 11	N 84 E 25	N 08 W 21	N 09 W 19
5	N 83 W 20	S 51 E 43	S 19 E 19	N 54 W 37	S 58 E 33	S 14 E 38	S 27 E 34	N 48 W 25	E 11	S 65 E 25	N 25 W 33	N 07 W 24
10	N 89 W 19	S 46 E 45	S 33 E 10	N 47 W 33	S 37 E 38	S 13 E 37	S 19 E 30	N 39 W 39	N 78 E 16	S 19 E 21	N 37 W 45	N 18 W 28
15	N 71 W 12	S 49 E 49	S 35 E 10	N 13 W 28	S 23 E 31	S 21 E 33	S 03 W 17	N 38 W 37	S 50 E 18	S 24 W 21	N 28 W 48	N 19 W 27
20	N 54 E 12	S 47 E 48	S 45 E 17	N 03 W 30	S 30 E 25	S 42 E 27	N 80 W 12	N 34 W 30	S 13 E 23	S 23 W 15	N 24 W 46	N 26 W 27
25	N 59 E 12	S 37 E 46	N 86 E 18	N 04 W 26	S 29 E 21	S 36 E 26	N 55 W 21	N 20 W 29	S 42 E 14	S 56 W 16	N 19 W 47	N 32 W 32
27½	N 51 E 12	S 34 E 45	N 75 E 18	N 02 W 21	S 32 E 19	S 66 E 24	N 44 W 28	N 22 W 23	S 03 E 13	S 57 W 16	N 19 W 46	N 42 W 24
30	W 15	S 42 E 41	N 63 E 18	N 20 W 20	S 25 E 20	S 70 E 24	N 29 W 33	N 18 W 16	S 04 W 13	N 27 W 5	N 16 W 42	N 41 W 20
	16 3^{45} a	**16** 7^{49} a	**16** 11^{42} a	**16** 3^{44} p	**16** 7^{38} p	**16** 11^{38} p	**25** 3^{48} a	**25** 7^{42} a	**25** 11^{48} a	**25** 3^{49} p	**25** 7^{48} p	**25** 11^{40} p
2½	N 43 W 19	S 81 E 25	S 15 E 37	N 71 W 31	N 07 E 16	S 18 E 70	S 43 E 25	N 54 W 25	S 44 E 11	S 26 E 35	N 53 W 33	N 70 E 9
5	N 46 W 19	S 69 E 33	S 18 E 33	N 83 W 40	N 18 E 20	S 15 E 69	S 48 E 23	N 53 W 30	0	S 23 E 36	N 61 W 39	N 21 E 14
10	N 48 W 23	S 72 E 33	S 21 E 33	N 73 W 36	S 15 W 3	S 13 E 60	S 07 E 19	N 56 W 34	0	S 31 E 37	N 39 W 31	N 20 W 11
15	N 45 W 22	S 55 E 30	S 16 E 25	N 68 W 30	S 20 E 20	S 12 E 58	S 02 W 17	N 43 W 38	0	S 30 E 33	N 41 W 30	N 61 W 11
20	N 12 W 13	S 39 E 27	S 25 E 25	N 47 W 21	S 23 E 25	S 10 E 63	S 05 E 19	N 42 W 42	0	S 25 E 29	N 30 W 27	S 02 W 2
25	N 14 W 13	S 23 E 30	S 39 E 22	N 26 W 30	S 25 E 28	S 43 E 46	N 27 W 5	N 25 W 36	S 35 W 11	S 34 E 24	N 07 W 31	S 02 W 2
27½	N 09 W 16	S 14 E 25	S 72 E 20	N 05 W 30	S 25 E 32	S 20 E 37	N 27 W 5	N 17 W 30	S 22 W 19	S 49 E 20	N 07 W 31	S 02 W 2
30	N 11 W 16	S 08 E 25	S 80 E 20	N 13 W 23	S 20 E 30	S 43 E 31	N 27 W 5	N 20 W 26	S 14 W 18	S 48 E 11	N 07 W 31	S 02 W 2

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

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Meter	26 3^{45} p	26 7^{48} a	26 11^{44} a	26 3^{48} p	26 7^{38} p	26 11^{48} p	4 3^{38} a	4 7^{41} a	4 11^{45} a	4 3^{50} p	4 7^{48} p	4 11^{38} p
2½	S 19 E 40	N 40 W 18	N 16 W 24	S 35 E 33	S 87 W 9	N 21 W 33	S 27 W 24	N 51 W 40	S 23 E 48	S 65 W 20	N 42 W 46	0
5	S 17 E 39	N 57 W 16	N 26 W 30	S 41 E 37	N 81 W 11	N 33 W 32	S 27 W 18	N 43 W 44	S 39 E 58	N 82 W 24	N 30 W 53	S 42 E 32
10	S 19 E 31	N 65 W 15	N 25 W 22	S 26 E 36	N 35 W 19	N 39 W 23	S 83 W 23	N 43 W 45	S 44 E 67	S 88 W 29	N 22 W 48	S 35 E 69
15	S 06 E 30	N 57 W 22	N 41 W 13	S 24 E 28	N 38 W 21	N 36 W 23	S 59 W 9	N 35 W 40	S 54 E 65	N 80 W 16	N 22 W 46	S 35 E 65
20	S 06 E 30	N 63 W 22	N 69 W 12	S 25 E 27	N 15 W 22	N 37 W 12	N 03 W 8	N 37 W 28	S 28 E 73	E 6	N 30 W 44	S 44 E 54
25	S 31 E 29	N 08 W 24	N 75 W 12	S 24 E 24	N 17 W 25	N 46 W 12	N 48 E 7	N 22 W 11	S 18 E 71	N 55 E 18	N 56 W 36	S 31 E 41
27½	S 31 E 20	N 15 W 20	N 55 W 11	S 25 E 22	N 09 W 24	N 46 W 12	N 57 E 13	N 76 W 19	S 39 E 58	N 22 E 21	N 51 W 32	S 09 E 41
30	S 28 E 20	N 21 W 18	N 72 W 11	S 35 E 13	N 02 W 21	N 64 W 12	N 57 E 13	S 62 W 12	S 29 E 57	N 10 E 21	N 75 W 15	S 10 E 33
	27 3^{38} a	**27** 7^{45} a	**27** 11^{45} a	**27** 3^{44} p	**27** 7^{48} p	**27** 11^{45} p	**5** 3^{45} a	**5** 7^{38} a	**5** 11^{44} a	**5** 3^{48} p	**5** 7^{42} p	**5** 11^{48} p
2½	S 45 E 33	0	N 33 W 30	S 27 E 25	S 01 E 14	N 53 W 24	S 60 W 19	N 35 W 25	S 42 E 46	S 05 W 19	N 38 W 34	S 45 E 25
5	S 31 E 33	S 17 W 11	N 41 W 29	S 38 E 30	S 01 W 11	N 53 W 24	S 18 W 19	N 34 W 29	S 44 E 49	S 05 W 30	N 28 W 39	S 33 E 33
10	S 28 E 31	S 25 W 16	N 41 W 28	S 42 E 35	S 11 E 11	N 41 W 22	S 05 W 29	N 37 W 35	S 63 E 50	S 27 E 22	N 25 W 42	S 57 E 36
15	S 31 E 28	S 84 W 16	N 42 W 21	S 45 E 34	S 12 E 8	N 31 W 22	S 04 E 33	N 45 W 22	S 67 E 51	S 45 E 22	N 14 W 34	S 54 E 30
20	S 29 E 30	N 42 W 16	N 44 W 17	S 47 E 37	S 26 W 7	N 30 W 16	S 18 E 27	N 44 W 12	S 57 E 49	S 48 E 21	N 14 W 30	S 60 E 33
25	S 20 E 29	N 42 W 18	N 58 W 14	S 43 E 27	S 82 W 7	N 30 W 16	S 36 E 26	N 01 W 9	S 45 E 45	S 57 E 16	N 12 W 23	S 58 E 29
27½	S 18 E 25	N 30 W 18	N 67 W 14	S 38 E 20	W 9	N 26 W 7	S 68 E 21	S 40 E 7	S 36 E 43	S 74 E 13	N 29 W 24	S 26 E 29
30	S 20 E 23	N 09 W 18	N 63 W 14	S 40 E 16	N 88 W 7	N 29 W 7	S 87 E 22	N 37 E 4	S 38 E 42	N 76 E 14	N 40 W 20	S 58 E 20
	28 3^{48} a	**28** 7^{49} a	**28** 11^{48} a	**28** 3^{48} p	**28** 7^{45} p	**28** 11^{48} p	**6** 3^{40} a	**6** 7^{46} a	**6** 11^{48} a	**6** 3^{42} p	**6** 7^{38} p	**6** 11^{44} p
2½	0	S 03 E 21	N 41 W 19	0	S 41 E 40	S 83 E 11	S 34 E 16	N 71 W 19	S 33 E 25	S 15 E 26	N 63 W 31	0
5	S 47 E 11	S 07 W 25	N 48 W 19	0	S 36 E 39	N 80 E 9	S 29 E 29	N 65 W 19	S 41 E 33	S 18 E 26	N 57 W 25	0
10	S 37 E 20	S 09 W 24	N 42 W 20	0	S 25 E 38	N 79 E 9	S 31 E 36	N 56 W 23	S 60 E 36	S 34 E 32	N 58 W 30	0
15	S 32 E 23	S 04 W 20	N 33 W 24	S 53 E 11	S 24 E 37	N 82 E 9	S 31 E 34	N 56 W 22	S 48 E 32	S 34 E 34	N 42 W 30	S 04 E 7
20	S 26 E 25	S 08 W 13	N 35 W 23	S 25 E 16	S 22 E 36	S 02 E 7	S 49 E 30	N 46 W 20	S 30 E 37	S 28 E 29	N 36 W 26	S 32 E 20
25	S 17 E 27	S 49 E 20	N 20 W 20	S 15 E 15	S 25 E 32	S 02 E 11	S 25 E 24	N 22 W 20	S 25 E 36	S 36 E 25	N 16 W 23	S 32 E 23
27½	S 20 E 27	S 63 E 14	N 19 W 20	S 05 E 15	S 25 E 27	S 01 E 11	S 47 E 20	N 14 W 16	S 24 E 33	S 50 E 16	N 05 W 26	S 18 E 23
30	S 22 E 23	S 66 E 14	N 11 W 20	S 07 E 16	S 26 E 27	S 04 E 11	S 33 E 16	N 14 W 16	S 25 E 31	S 70 E 12	N 16 W 21	S 07 E 23
	29 3^{39} a	**29** 7^{48} a	**29** 11^{48} a	**29** 3^{45} p	**29** 7^{35} p	**29** 11^{45} p	**7** 3^{48} a	**7** 7^{43} a	**7** 11^{45} a	**7** 3^{43} p	**7** 7^{45} p	**7** 11^{38} p
2½	N 44 E 9	S 15 E 33	N 12 E 13	N 34 W 25	S 38 E 33	N 65 W 19	S 15 E 20	N 32 W 14	0	S 36 E 31	N 57 W 16	N 33 W 11
5	N 45 E 9	S 10 E 32	N 16 E 11	N 44 W 25	S 53 E 32	N 73 W 11	S 56 E 24	N 26 W 16	0	S 46 E 37	N 55 W 16	N 71 W 7
10	N 43 E 7	S 06 W 31	N 36 E 10	N 44 W 24	S 35 E 38	N 78 W 10	S 54 E 28	N 24 W 18	S 04 E 11	S 26 E 36	N 36 W 25	0
15	S 44 W 1	S 04 W 32	N 44 E 17	N 34 W 23	S 29 E 44	S 84 E 2	S 20 E 38	N 23 W 20	S 42 E 11	S 25 E 41	N 04 W 24	0
20	S 44 W 1	S 07 W 27	N 56 E 20	N 34 W 20	S 16 E 43	S 84 E 2	S 19 E 26	N 30 W 22	S 54 E 16	S 36 E 42	N 02 W 23	N 29 E 9
25	S 44 W 1	S 01 E 26	N 66 E 26	N 34 W 20	S 10 E 35	S 84 E 2	S 24 E 25	N 27 W 27	S 34 E 18	S 32 E 41	N 01 W 23	0
27½	N 54 W 7	S 14 E 23	N 66 E 28	N 61 W 13	S 07 E 30	N 79 E 12	S 29 E 22	N 27 W 27	S 08 E 18	S 34 E 25	N 02 W 30	S 42 W 6
30	N 76 W 14	S 01 E 21	N 66 E 28	N 61 W 13	S 25 E 28	N 16 E 11	S 30 E 13	N 28 W 26	S 20	S 30 E 21	N 04 W 31	S 31 W 9
	30 3^{48} a	**30** 7^{44} a	**30** 11^{48} a	**30** 3^{39} p	**30** 7^{48} p	**30** 11^{40} p	**8** 3^{39} a	**8** 7^{48} a	**8** 11^{48} a	**8** 3^{48} p	**8** 7^{41} p	**8** 11^{45} p
2½	N 32 W 21	S 50 E 36	N 57 W 19	N 20 W 46	S 36 E 25	S 73 W 11	S 43 E 31	N 73 W 19	S 47 W 6	S 13 E 49	N 29 W 7	N 10 W 11
5	N 36 W 27	S 47 E 36	N 32 W 19	N 34 W 45	S 36 E 33	S 04 E 11	S 39 E 38	N 73 W 16	S 45 W 6	S 23 E 45	N 45 W 14	N 08 W 11
10	N 50 W 15	S 39 E 43	S 48 E 3	N 30 W 42	S 37 E 35	S 01 E 11	S 25 E 40	N 48 W 15	S 25 W 6	S 23 E 46	N 58 W 19	0
15	N 48 W 14	S 43 E 44	S 48 E 3	N 29 W 36	S 31 E 31	S 16 E 11	S 27 E 40	N 16 W 18	0	S 33 E 43	N 14 W 13	0
20	N 48 W 14	S 41 E 44	N 35 W 18	N 36 W 28	S 27 E 30	S 43 W 10	S 30 E 39	N 04 W 20	0	S 35 E 42	N 40 W 14	N 08 E 11
25	N 49 W 11	S 30 E 45	N 36 W 17	N 46 W 27	S 27 E 30	N 10 E 2	S 08 E 31	N 05 W 22	0	S 44 E 38	N 01 W 20	N 22 W 11
27½	N 54 W 9	S 29 E 44	N 06 W 20	N 57 W 28	S 19 E 28	N 10 E 2	S 16 E 22	N 02 W 25	0	S 43 E 32	N 21 E 20	N 39 W 11
30	N 73 W 20	S 13 E 41	N 10 W 22	N 64 W 18	S 21 E 28	N 10 E 2	S 24 E 21	N 14 W 27	S 19 W 6	S 39 E 28	N 37 E 18	N 64 W 11
	31 3^{45} a	**31** 7^{48} a	**31** 11^{38} a	**31** 3^{48} p	**31** 7^{49} p	**31** 11^{48} p	**9** 3^{38} a	**9** 7^{43} a	**9** 11^{48} a	**9** 3^{45} p	**9** 7^{43} p	**9** 11^{38} p
2½	N 26 W 40	S 61 E 16	0	N 40 W 46	S 89 E 14	S 55 W 11	S 48 E 37	N 25 W 11	N 11 W 33	S 10 E 36	S 35 W 24	N 73 W 16
5	N 41 W 46	S 59 E 21	0	N 19 W 48	S 87 E 16	S 23 E 19	S 49 E 46	N 53 W 25	N 33	S 28 W 34	S 42 W 29	S 86 W 16
10	N 41 W 44	S 51 E 21	0	N 34 W 46	S 86 E 18	S 15 E 18	S 50 E 44	N 47 W 24	N 13 W 38	S 20 E 34	S 40 W 28	N 88 W 25
15	N 41 W 36	S 31 E 20	0	N 28 W 49	S 66 E 17	S 10 E 14	S 30 E 36	N 44 W 29	N 04 W 31	S 32 E 31	S 42 W 16	N 74 W 28
20	N 36 W 28	S 03 E 24	N 34 W 11	N 28 W 47	S 19 E 18	S 21 E 13	S 39 E 35	N 28 W 34	N 22 W 30	S 24 E 33	N 40 E 6	N 41 W 28
25	N 24 W 28	S 04 W 24	N 05 E 11	N 30 W 38	S 26 E 20	S 21 E 9	S 22 E 27	N 20 W 37	N 04 W 36	S 32 E 30	N 40 E 6	N 20 W 24
27½	N 27 W 27	S 03 W 18	N 24 W 9	N 30 W 34	S 18 E 20	S 31 E 9	S 36 E 28	N 07 W 36	N 08 E 29	S 31 E 31	N 58 E 14	N 14 E 15
30	N 23 W 18	S 14 W 18	N 04 W 11	N 32 W 33	S 12 E 20	S 31 E 4	S 09 E 18	N 04 W 37	N 32 W 29	S 35 E 26	N 39 E 14	S 72 E 7
	1 3^{48} a	**1** 7^{45} a	**1** 11^{48} a	**1** 3^{48} p	**1** 7^{48} p	**1** 11^{44} p	**10** 3^{45} a	**10** 7^{44} a	**10** 11^{45} a	**10** 3^{48} p	**10** 7^{40} p	**10** 11^{48} p
2½	N 54 W 40	N 11 E 11	0	N 27 W 46	N 15 E 11	S 13 E 34	S 08 E 48	S 02 W 40	N 41 W 30	S 05 E 30	S 13 E 67	0
5	N 38 W 32	N 21 E 16	S 36 E 16	N 16 W 45	N 20 W 19	S 10 E 37	S 03 W 48	S 22 W 24	N 38 W 33	S 07 E 34	S 09 E 73	S 69 W 19
10	N 32 W 31	N 30 E 15	S 45 E 23	N 26 W 46	N 07 W 20	S 09 E 30	S 11 E 57	S 12 W 24	N 33 W 36	S 05 E 33	S 08 E 73	S 29 W 18
15	N 26 W 30	N 50 E 15	S 66 E 13	N 24 W 49	N 05 W 20	S 06 E 30	S 24 E 56	S 44 W 20	N 33 W 33	S 16 E 32	S 08 E 65	N 50 E 3
20	N 31 W 30	N 60 E 15	N 66 E 10	N 24 W 47	N 50 W 13	S 01 W 31	S 26 E 54	S 80 E 25	N 36 W 32	S 07 E 35	S 08 E 59	N 50 E 3
25	N 26 W 24	N 86 E 10	N 60 E 10	N 25 W 43	N 46 W 13	S 11 E 32	S 24 E 64	S 88 E 25	N 26 W 25	S 14 E 34	S 39 E 55	S 38 E 19
27½	N 25 W 20	S 40 W 4	N 52 E 10	N 26 W 43	N 69 W 9	S 11 E 25	S 21 E 62	N 71 E 21	N 23 W 22	S 01 E 34	S 60 E 59	S 32 E 19
30	N 34 W 20	S 40 W 4	N 64 E 10	N 25 W 39	N 76 W 9	S 01 W 20	S 21 E 51	N 60 E 25	N 75 W 6	S 06 E 34	S 48 E 49	S 54 E 19
	2 3^{48} a	**2** 7^{45} a	**2** 11^{45} a	**2** 3^{58} p	**2** 7^{48} p	**2** 11^{38} p	**11** 3^{40} a	**11** 7^{48} a	**11** 11^{48} a	**11** 3^{49} p	**11** 7^{46} p	**11** 11^{39} p
2½	S 82 W 25	N 61 W 36	S 20 E 24	N 53 W 48	N 55 W 59	S 06 E 46	0	S 38 E 48	N 22 E 19	0	S 36 E 36	N 02 E 14
5	N 72 W 25	N 50 W 48	S 40 E 29	N 56 W 47	N 44 W 58	S 18 E 45	S 40 E 11	S 29 E 47	N 13 W 19	0	S 57 E 48	N 34 W 19
10	N 74 W 32	N 12 W 40	S 60 E 38	N 47 W 57	N 32 W 56	S 18 E 43	S 43 E 20	S 19 E 35	N 05 W 23	N 27 E 19	S 22 E 34	N 35 W 22
15	N 31 W 32	N 18 W 34	S 63 E 36	N 43 W 51	N 38 W 44	S 27 E 49	S 41 E 29	S 29 E 57	N 32 W 28	N 07 W 26	S 41 E 57	N 39 W 17
20	N 24 W 29	N 12 W 28	S 40 E 31	N 34 W 54	N 48 W 31	S 26 E 48	S 26 E 28	S 32 E 55	N 20 W 33	N 29 W 28	S 21 E 33	N 27 W 22
25	N 10 W 31	N 09 W 19	S 36 E 30	N 28 W 48	N 59 W 24	S 26 E 46	S 36 E 25	S 70 E 31	N 01 E 30	N 35 W 19	S 39 E 32	N 31 W 25
27½	N 10 W 29	N 58 W 19	S 26 E 21	N 19 W 45	N 86 W 16	S 27 E 43	S 24 E 25	S 64 E 31	N 01 E 32	N 56 W 18	S 41 E 31	N 01 E 24
30	N 22	S 30 E 10	S 56 E 17	N 18 W 43	N 88 W 16	S 24 E 38	S 27 E 26	S 54 E 43	N 01 E 31	N 81 W 14	S 38 E 15	N 09 E 20
	3 3^{40} a	**3** 7^{48} a	**3** 11^{49} a	**3** 3^{45} p	**3** 7^{44} p	**3** 11^{46} p	**12** 3^{48} a	**12** 7^{39} a	**12** 11^{45} a	**12** 3^{48} p	**12** 7^{40} p	**12** 11^{39} p
2½	S 77 W 35	N 77 W 33	S 02 W 36	N 65 W 33	N 36 W 70	S 55 E 59	N 12 E 19	N 30 E 30	N 13 W 33	N 19 W 34	S 43 E 25	S 52 W 25
5	S 82 W 31	N 54 W 32	S 27 E 48	N 56 W 39	N 29 W 79	S 66 E 58	N 02 E 24	N 36 E 23	N 08 W 46	N 28 W 46	S 41 E 25	S 54 W 33
10	N 66 W 26	N 41 W 31	S 58 E 58	N 55 W 38	N 33 W 72	S 36 E 57	N 11 W 33	N 12 E 22	N 14 W 45	N 29 W 51	S 32 E 30	S 34 E 21
15	N 67 W 22	S 58 E 7	S 34 E 71	N 08 W 30	N 28 W 63	S 23 E 66	N 38 W 33	N 20 E 27	N 14 W 36	N 34 W 43	S 20 E 31	S 84 E 17
20	N 43 E 20	S 58 E 7	S 33 E 75	N 12 W 30	N 52 W 38	S 26 E 64	N 33 W 32	N 12 E 26	N 22 W 36	N 34 W 42	S 25 E 30	S 33 E 12
25	N 56 E 18	S 17	S 32 E 61	N 15 W 29	N 46 W 37	S 26 E 51	N 30 W 33	N 21 E 22	N 20 W 34	N 34 W 40	S 23 E 30	N 22 E 4
27½	N 46 E 21	S 19	S 34 E 60	N 13 W 29	N 39 W 36	S 21 E 50	N 24 W 30	N 10 W 14	N 05 W 42	N 45 W 43	S 23 E 30	N 22 E 4
30	N 44 E 21	S 01 E 20	S 48 E 37	N 18 W 25	N 37 W 31	S 22 E 49	N 38 W 19	S 15 E 15	N 10 W 47	N 54 W 46	S 18 E 30	N 22 E 4

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	**13** 3^{44} a	**13** 7^{48} a	**13** 11^{35} a	**13** 3^{45} p	**13** 7^{40} p	**13** 11^{45} p	**22** 3^{48} a	**22** 7^{48} a	**22** 11^{48} a	**22** 3^{48} p	**22** 7^{45} p	**22** 11^{38} p
2½	N 38 W 24	S 65 E 16	N 03 E 11	N 25 W 48	0	S 02 E 25	0	N 44 W 43	S 08 W 13	S 51 E 19	N 42 W 25	S 83 E 11
5	N 36 W 31	S 38 E 25	N 10 E 16	N 22 W 47	0	S 07 W 25	S 17 W 11	N 50 W 46	S 19 E 16	S 35 E 19	N 42 W 40	S 73 E 14
10	N 45 W 31	S 27 E 32	N 07 W 15	N 19 W 46	S 46 E 19	S 24	S 05 W 11	N 33 W 44	S 36 E 18	N 79 E 15	N 40 W 45	S 83 E 19
15	N 46 W 33	S 47 E 29	N 44 W 15	N 22 W 56	S 64 E 18	S 14 W 14	N 10 E 1	N 35 W 42	S 49 E 20	S 16 W 16	N 28 W 44	S 64 E 18
20	N 40 W 32	S 25 E 31	N 02 W 18	N 34 W 55	S 33 E 13	S 18 W 13	N 10 E 1	N 16 W 32	S 55 E 28	N 86 E 6	N 28 W 35	S 30 E 21
25	N 40 W 30	S 35 E 30	N 11 W 17	N 31 W 40	S 08 E 10	N 05 E 6	N 10 E 1	N 02 E 24	S 48 E 32	S 86 E 10	N 30 W 34	S 31 E 20
27½	N 37 W 28	S 39 E 30	N 28 W 22	N 26 W 39	S 03 W 15	N 05 E 6	N 10 E 1	N 06 E 19	S 36 E 33	S 72 E 10	N 20 W 34	S 32 E 20
30	N 31 W 26	S 32 E 27	N 33 W 22	N 35 W 42	S 03 E 15	S 02 E 13	N 56 E 11	N 10 E 14	S 34 E 32	S 62 E 9	N 20 W 26	S 15 E 17
	14 3^{39} a	**14** 7^{45} a	**14** 11^{48} a	**14** 3^{44} p	**14** 7^{48} p	**14** 11^{35} p	**23** 3^{39} a	**23** 7^{48} a	**23** 11^{48} a	**23** 3^{48} p	**23** 7^{48} p	**23** 11^{45} p
2½	N 35 W 40	S 87 W 19	0	N 31 W 59	N 15 W 11	0	S 45 E 11	N 47 W 21	N 45 E 13	S 30 E 16	N 20 W 25	N 04 W 24
5	N 34 W 46	N 73 W 20	N 11 W 19	N 20 W 75	N 07 W 11	0	S 68 E 13	N 41 W 30	0	S 35 E 29	N 26 W 25	N 05 W 18
10	N 30 W 44	N 70 W 20	N 30 W 20	N 28 W 72	N 7	0	S 52 E 20	N 39 W 32	S 52 W 11	S 31 E 32	N 26 W 24	N 10
15	N 25 W 36	N 45 W 22	N 40 W 9	N 25 W 64	N 12 W 18	0	S 51 E 18	N 28 W 31	S 15 E 19	S 23 E 34	N 25 W 25	N 9
20	N 31 W 35	N 63 W 20	N 25 W 9	N 24 W 61	N 19 W 9	0	S 38 E 14	N 30 W 32	S 02 E 18	S 22 E 32	N 23 W 28	S 02 E 4
25	N 29 W 37	N 57 W 22	N 20 E 17	N 30 W 59	N 07 W 9	0	S 16 E 11	N 25 W 30	S 09 W 15	S 42 E 21	N 12 W 27	S 02 E 4
27½	N 36 W 37	N 33 W 21	N 10 E 22	N 28 W 58	N 04 E 9	S 19 W 7	N 45 W 4	N 20 W 27	S 14 E 15	S 34 E 17	N 13 W 29	S 24 W 13
30	N 38 W 40	N 44 W 20	N 13 E 17	N 40 W 43	N 11 W 7	S 29 W 11	N 45 W 4	N 28 W 26	S 07 W 16	S 37 E 12	N 20 W 20	S 28 W 20
	15 3^{46} a	**15** 7^{43} a	**15** 11^{38} a	**15** 3^{46} p	**15** 7^{39} p	**15** 11^{48} p	**24** 3^{38} a	**24** 7^{44} a	**24** 11^{48} a	**24** 3^{49} p	**24** 7^{48} p	**24** 11^{48} p
2½	N 48 W 59	N 53 W 30	0	N 38 W 70	N 17 W 22	S 56 E 30	S 41 E 21	N 32 W 53	N 28 W 19	S 26 E 32	N 05 W 25	N 46 W 29
5	N 41 W 47	N 42 W 18	N 42 E 11	N 10 W 73	N 16 W 30	S 48 E 29	S 37 E 25	N 20 W 49	N 19 W 30	S 26 E 36	N 06 E 40	N 36 W 40
10	N 35 W 46	N 31 W 18	N 14 E 11	N 25 W 55	N 20 W 32	S 48 E 22	S 44 E 24	N 50 W 44	N 16 W 28	S 25 E 45	N 40 W 38	N 26 W 52
15	N 34 W 45	N 16 W 28	N 26 W 16	N 20 W 65	N 19 W 30	S 45 E 16	S 38 E 23	N 27 W 45	N 24 W 16	S 29 E 42	N 21 W 37	N 76 W 25
20	N 29 W 32	N 24 E 22	S 20 E 2	N 32 W 62	N 24 W 26	S 41 E 16	S 34 E 26	N 16 W 48	N 16 W 13	S 33 E 45	N 20 W 30	N 51 W 20
25	N 34 W 31	N 46 E 20	S 20 E 2	N 20 W 50	N 26 W 20	S 52 E 15	S 26 E 19	N 12 W 44	N 86 W 17	S 34 E 37	N 34 W 29	N 21 W 16
27½	N 35 W 31	S 80 E 17	S 74 E 12	N 23 W 49	N 36 W 15	S 21 E 12	S 26 E 19	N 24 W 44	S 67 W 20	S 18 E 26	N 12 W 29	N 74 W 20
30	N 33 W 31	S 48 E 14	S 20 E 2	N 36 W 48	N 54 W 10	S 54 E 12	S 23 E 12	N 11 W 39	S 86 W 8	S 12 E 20	N 24 W 28	N 79 W 20
	16 3^{40} a	**16** 7^{45} a	**16** 11^{48} a	**16** 3^{45} p	**16** 7^{44} p	**16** 11^{40} p	**25** 3^{45} a	**25** 7^{43} a	**25** 11^{42} a	**25** 3^{48} p	**25** 7^{44} p	**25** 11^{48} p
2½	N 31 W 25	N 07 W 11	S 16 E 19	N 23 W 40	N 02 E 11	S 25 E 33	S 17 E 25	N 27 W 30	N 35 W 35	S 18 E 48	S 53 E 24	N 41 W 25
5	N 40 W 46	N 16 E 11	S 45 E 30	N 32 W 46	N 08 W 24	S 21 E 37	S 18 E 33	N 13 W 40	N 43 W 33	S 18 E 47	S 55 E 29	N 51 W 33
10	N 24 W 42	0	S 24 E 22	N 32 W 44	N 31 W 21	S 20 E 42	S 39 E 32	N 18 W 31	N 51 W 27	S 18 E 57	S 32 E 31	N 33 W 29
15	N 34 W 34	0	S 17 E 17	N 24 W 43	N 56 W 14	S 22 E 42	S 35 E 31	N 16 W 35	N 50 W 21	S 30 E 62	S 26 E 33	N 26 W 23
20	N 27 W 36	N 11	S 44 E 21	N 17 W 42	N 62 W 14	S 24 E 43	S 32 E 30	N 08 W 30	N 50 W 20	S 20 E 65	S 33 E 31	N 61 W 22
25	N 29 W 35	N 15 E 11	S 29 E 21	N 19 W 34	N 62 W 12	S 27 E 37	S 27 E 37	N 05 W 24	N 61 W 20	S 25 E 62	S 19 E 27	N 60 W 18
27½	N 32 W 34	S 15 W 1	S 33 E 20	N 22 W 33	N 35 W 5	S 23 E 37	S 08 E 44	N 11 W 14	N 57 W 20	S 16 E 51	S 20 E 30	S 44 E 8
30	N 24 W 34	S 15 W 1	S 33 E 26	N 17 W 30	S 30 E 5	S 21 E 36	S 01 E 43	N 22 W 9	N 46 W 14	S 07 E 50	S 13 E 28	N 42 E 24
	17 3^{48} a	**17** 7^{38} a	**17** 11^{42} a	**17** 3^{48} p	**17** 7^{45} p	**17** 11^{38} p	**26** 3^{48} a	**26** 7^{45} a	**26** 11^{48} a	**26** 3^{49} p	**26** 7^{44} p	**26** 11^{40} p
2½	N 65 W 19	N 17 E 11	S 48 E 30	N 37 W 30	N 15 W 33	S 23 E 43	S 78 E 48	N 05 E 33	N 23 W 59	0	S 23 E 25	N 27 W 76
5	N 61 W 19	N 12 E 11	S 52 E 38	N 25 W 33	N 15 W 32	S 27 E 46	S 74 E 58	N 10 E 32	N 17 W 58	S 59 W 19	S 37 E 29	N 30 W 68
10	N 68 W 20	N 11 E 11	S 40 E 38	N 34 W 38	N 34 W 20	S 27 E 43	S 62 E 57	N 20 E 31	N 23 W 57	S 55 W 14	S 16 E 28	N 31 W 66
15	N 44 W 17	N 06 E 7	S 37 E 37	N 34 W 36	N 30 W 20	S 13 E 36	S 54 E 51	N 25 E 30	N 22 W 59	S 34 E 12	S 30 E 23	N 27 W 59
20	N 35 W 17	N 24 W 10	S 31 E 41	N 33 W 35	N 39 W 20	S 15 E 33	S 36 E 43	N 01 W 21	N 24 W 65	S 10 W 15	S 34 E 23	N 25 W 58
25	N 44 W 16	S 01 E 2	S 28 E 42	N 26 W 32	N 37 W 22	S 17 E 31	S 43 E 42	N 02 W 21	N 24 W 52	S 14 E 10	S 26 E 17	N 16 W 58
27½	N 34 W 13	S 03 W 8	S 26 E 34	N 21 W 33	N 36 W 22	S 24 E 31	S 63 E 41	N 24 E 20	N 35 W 51	S 10 E 10	S 34 E 12	N 27 W 64
30	N 17 E 13	S 14 W 12	S 33 E 28	N 21 W 33	N 36 W 21	S 23 E 34	S 19 W 51	N 16 E 20	N 29 W 50	S 10 W 15	S 24 E 17	N 34 W 58
	18 3^{42} a	**18** 7^{48} a	**18** 11^{48} a	**18** 3^{48} p	**18** 7^{48} p	**18** 11^{45} p	**27** 3^{48} a	**27** 7^{48} a	**27** 11^{43} a	**27** 3^{43} p	**27** 7^{45} p	**27** 11^{38} p
2½	S 84 W 11	N 43 W 24	S 29 E 46	N 38 W 19	N 31 W 11	S 45 E 40	N 20 W 40	0	N 23 W 67	N 18 W 40	S 31 E 25	N 37 W 40
5	S 85 W 11	N 58 W 19	S 35 E 46	N 28 W 24	N 54 W 33	S 26 E 46	N 25 W 39	N 85 E 16	N 26 W 66	N 25 W 32	S 34 E 25	N 29 W 32
10	N 57 W 9	N 56 W 18	S 32 E 41	N 17 W 23	N 50 W 35	S 24 E 44	N 44 W 31	N 57 E 18	N 40 W 82	N 18 W 31	S 32 E 32	N 21 W 23
15	N 55 W 9	N 32 W 17	S 26 E 44	N 10 W 25	N 31 W 38	S 24 E 43	N 44 W 30	N 33 E 17	N 35 W 79	N 31 W 26	S 26 E 31	N 33 W 23
20	N 44 W 7	S 72 W 9	S 24 E 42	N 09 W 31	N 34 W 34	S 10 E 42	N 22 E 22	S 11 E 17	N 40 W 67	N 34 W 29	S 26 E 35	N 35 W 19
25	N 20 W 7	N 60 W 8	S 21 E 44	N 02 E 32	N 37 W 29	S 14 E 33	N 31 E 22	N 50 E 14	N 22 W 65	N 34 W 29	S 35 E 37	N 19 W 15
27½	N 05 W 9	S 39 W 11	S 28 E 37	N 01 E 32	N 37 W 23	S 17 E 33	N 10 W 21	N 52 W 20	N 24 W 55	N 40 W 28	S 33 E 36	N 22 W 17
30	N 04 W 9	S 56 E 5	S 21 E 37	N 05 W 31	N 32 W 16	S 23 E 33	N 10 W 26	N 36 E 19	N 21 W 54	N 44 W 24	S 21 E 36	N 22 W 9
	19 3^{38} a	**19** 7^{44} a	**19** 11^{45} a	**19** 3^{44} p	**19** 7^{48} p	**19** 11^{48} p	**28** 3^{39} a	**28** 7^{48} a	**28** 11^{48} a	**28** 3^{45} p	**28** 7^{48} p	**28** 11^{45} p
2½	N 48 W 11	N 59 W 19	S 48 E 40	S 57 W 19	N 48 W 33	S 48 E 33	N 17 W 36	S 33 E 25	N 54 W 40	N 30 W 40	S 02 W 21	S 36 E 11
5	N 23 W 11	N 40 W 20	S 36 E 53	N 57 W 24	N 36 W 39	S 36 E 32	N 14 W 32	S 21 E 33	N 54 W 46	N 31 W 32	S 13 E 46	S 17 E 24
10	0	N 26 W 18	S 40 E 50	N 22 W 18	N 43 W 38	S 26 E 31	N 39 W 37	S 34 E 32	N 54 W 38	N 40 W 44	S 26 E 52	S 16 W 29
15	N 12 W 6	N 44 W 16	S 43 E 49	N 28 W 17	N 32 W 37	S 36 E 34	N 40 W 33	S 36 E 38	N 44 W 34	N 37 W 34	S 30 E 49	S 04 E 28
20	N 09 E 16	N 32 W 16	S 46 E 44	N 25 W 22	N 32 W 33	S 33 E 33	N 40 W 33	S 60 E 37	N 46 W 31	N 33 W 33	S 29 E 48	S 31 W 21
25	N 04 W 10	N 36 W 12	S 47 E 38	N 02 E 22	N 60 W 29	S 26 E 36	N 42 W 34	S 56 E 44	N 65 W 38	N 30 W 28	S 25 E 46	S 09 E 20
27½	N 05 E 5	N 15 W 8	S 32 E 38	N 07 W 27	N 28 W 35	S 40 E 38	N 32 W 28	S 34 E 38	N 58 W 37	N 48 W 28	S 30 E 45	S 54 E 16
30	N 17 W 7	N 16 W 6	S 32 E 37	N 10 W 26	N 38 W 34	S 42 E 38	N 58 W 27	S 23 E 38	N 55 W 34	N 46 W 28	S 29 E 45	S 54 E 16
	20 3^{45} a	**20** 7^{43} a	**20** 11^{42} a	**20** 3^{48} p	**20** 7^{46} p	**20** 11^{48} p	**29** 3^{38} a	**29** 7^{44} a	**29** 11^{48} a	**29** 3^{48} p	**29** 7^{48} p	**29** 11^{48} p
2½	S 24 W 11	N 43 W 33	S 51 E 25	N 45 W 11	N 29 W 36	S 61 E 16	N 35 W 33	S 63 E 21	N 35 W 19	N 24 W 53	S 48 E 21	S 33 E 16
5	S 21 W 11	N 38 W 32	S 43 E 31	N 16 W 11	N 31 W 38	S 56 E 16	N 39 W 24	S 63 E 25	N 41 W 24	N 25 W 47	S 57 E 21	S 28 E 33
10	N 71 W 11	N 34 W 36	S 38 E 32	N 36 W 11	N 31 W 38	S 47 E 18	N 36 W 24	S 61 E 36	N 01 W 23	N 24 W 57	S 53 E 24	S 26 E 29
15	N 68 W 19	N 32 W 30	S 36 E 37	N 36 W 13	N 32 W 36	S 36 E 20	N 36 W 23	S 56 E 31	N 01 W 22	N 25 W 46	S 41 E 23	S 21 E 24
20	N 60 W 18	N 36 W 25	S 30 E 38	N 45 W 12	N 30 W 34	S 46 E 20	N 33 W 21	S 46 E 34	N 07 E 22	N 35 W 43	S 41 E 22	S 29 E 23
25	N 41 W 17	N 34 W 21	S 32 E 39	N 10 W 15	N 36 W 32	S 45 E 20	N 31 W 22	S 46 E 32	N 39 W 16	N 52 W 30	S 11 E 24	S 25 E 23
27½	N 32 W 17	N 36 W 17	S 32 E 36	N 24 W 15	N 30 W 27	S 45 E 20	N 36 W 12	S 50 E 36	N 40 W 16	N 50 W 30	S 31 E 26	S 31 E 22
30	N 18	N 38 W 20	S 42 E 32	N 13 W 18	N 33 W 24	S 40 E 20	N 26 W 12	S 51 E 33	N 16 W 15	N 50 W 26	S 24 E 25	S 44 E 24
	21 3^{48} a	**21** 7^{45} a	**21** 11^{43} a	**21** 3^{44} p	**21** 7^{46} p	**21** 11^{43} p	**30** 3^{45} a	**30** 7^{44} a	**30** 11^{44} a	**30** 3^{48} p	**30** 7^{39} p	**30** 11^{48} p
2½	N 49 W 11	N 40 W 46	S 83 E 22	0	N 38 W 33	S 49 E 14	N 38 W 25	S 58 E 14	S 38 E 11	N 41 W 36	0	S 02 W 33
5	N 48 W 11	N 29 W 45	S 83 E 21	0	N 35 W 39	S 48 E 13	N 37 W 25	S 43 E 24	S 39 E 13	N 48 W 48	S 11 E 27	S 28 E 53
10	N 41 W 9	N 29 W 44	S 78 E 20	0	N 30 W 42	S 40 E 17	N 35 W 28	S 32 E 23	S 40 E 16	N 41 W 46	N 11 W 3	S 38 E 52
15	N 41 W 8	N 28 W 29	S 66 E 20	0	N 27 W 44	S 51 E 13	N 36 W 27	S 36 E 25	S 44 E 18	N 45 W 45	S 17	S 34 E 49
20	N 36 W 8	N 19 W 29	S 36 E 21	N 12 W 7	N 27 W 33	S 60 E 20	N 45 W 19	S 22 E 25	S 50 E 20	N 41 W 40	S 20	S 27 E 47
25	N 36 W 6	N 18 W 19	S 21 E 20	N 13 W 9	N 08 W 22	S 59 E 22	N 46 W 12	S 16 E 25	S 48 E 14	N 35 W 31	S 22 E 20	S 50 E 46
27½	N 22 W 6	N 32 W 19	S 22 E 20	N 16 W 9	N 12 W 22	S 42 E 20	S 35 E 7	S 29 E 21	S 45 E 11	N 52 W 22	S 19 E 17	S 46 E 44
30	N 10 W 7	N 48 W 18	S 27 E 20	N 14 W 9	N 16 W 20	S 41 E 20	S 35 E 7	S 17 E 22	S 46 E 14	N 39 W 22	S 13 E 16	S 36 E 42

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	1 3^{48} a	1 7^{45} a	1 11^{48} a	1 3^{45} p	1 7^{43} p	1 11^{44} p	10 3^{40} a	10 7^{38} a	10 11^{48} a	10 3^{48} p	10 7^{42} p	10 11^{48} p
2½	N 65 W 21	S 07 W 11	S 48 E 33	N 40 W 46	N 38 W 11	S 21 E 61	0	S 05 W 25	0	S 33 E 36	S 26 E 65	S 61 E 24
5	N 36 W 33	S 18 E 19	S 38 E 39	N 39 W 45	N 33 W 19	S 28 E 79	S 72 W 25	S 09 W 30	N 88 W 19	S 44 E 48	S 43 E 72	S 50 E 23
10	N 34 W 25	S 49 E 18	S 34 E 38	N 29 W 37	N 38 W 8	S 38 E 74	S 47 W 24	S 14 W 35	S 78 W 18	S 32 E 47	S 37 E 73	S 43 E 25
15	N 79 W 20	S 41 E 28	S 49 E 37	N 14 W 37	S 38 E 2	S 36 E 73	N 56 E 4	S 10 W 38	N 87 W 17	S 37 E 46	S 44 E 74	S 33 E 24
20	S 45 E 6	S 49 E 21	S 34 E 37	N 19 W 35	S 34 W 14	S 30 E 62	S 89 W 14	S 05 W 37	N 63 W 20	S 24 E 49	S 32 E 67	S 33 E 16
25	S 45 E 6	S 41 E 21	S 41 E 32	N 22 W 27	S 36 W 11	S 33 E 60	S 55 W 18	S 10 W 30	N 67 W 16	S 24 E 44	S 32 E 60	S 35 E 15
27½	S 45 E 6	S 12 E 33	S 52 E 28	N 31 W 27	S 53 W 11	S 33 E 55	S 53 W 13	S 18 W 27	S 69 W 8	S 24 E 31	S 38 E 55	S 85 E 7
30	S 45 E 6	S 14 E 32	S 56 E 18	N 34 W 27	S 53 W 11	S 30 E 50	S 76 W 13	S 19 W 23	S 27 W 9	S 31 E 38	S 38 E 54	S 26 E 15
	2 3^{48} a	**2** 7^{48} a	**2** 11^{45} a	**2** 3^{49} p	**2** 7^{38} p	**2** 11^{44} p	**11** 3^{48} a	**11** 7^{38} a	**11** 11^{44} a	**11** 3^{49} p	**11** 7^{44} p	**11** 11^{44} p
2½	N 83 W 30	N 57 W 7	S 49 E 59	N 51 W 30	N 56 W 29	S 10 E 34	S 79 E 29	N 74 W 29	N 26 W 25	N 01 E 34	S 27 E 53	S 08 E 13
5	N 73 W 29	N 53 W 11	S 60 E 58	N 43 W 34	N 50 W 29	S 12 E 35	S 59 W 13	S 35 E 42	N 28 W 30	N 14 W 34	S 28 E 54	S 04 W 20
10	N 79 W 22	N 59 E 19	S 40 E 63	N 40 W 36	N 32 W 24	S 14 E 38	S 34 E 20	S 47 E 44	N 20 W 30	N 07 W 28	S 29 E 63	S 24 E 25
15	S 76 E 6	N 66 E 16	S 38 E 60	N 50 W 35	N 34 W 23	S 17 E 43	S 23 E 24	S 58 E 46	N 16 W 36	N 04 E 27	S 29 E 66	S 13 E 26
20	S 76 E 6	S 75 E 15	S 37 E 64	N 48 W 29	N 47 W 23	S 10 E 44	S 11 E 17	S 60 E 56	N 33 W 37	N 34 W 20	S 33 E 68	S 13 E 27
25	S 76 E 6	S 76 E 20	S 30 E 51	N 47 W 25	N 47 W 17	S 02 E 46	S 79 E 17	S 51 E 55	N 38 W 32	N 66 W 20	S 30 E 72	S 11 E 23
27½	N 86 E 20	S 30 E 14	S 44 E 50	N 48 W 20	N 63 W 12	S 50	S 89 E 17	S 39 E 58	N 20 W 32	N 72 W 22	S 26 E 66	S 30 E 21
30	S 56 E 20	S 22 E 23	S 46 E 49	N 52 W 20	N 63 W 12	S 04 E 49	S 47 E 18	S 45 E 57	N 24 W 30	W 28	S 34 E 60	S 35 E 16
	3 3^{38} a	**3** 7^{48} a	**3** 11^{42} a	**3** 3^{45} p	**3** 7^{48} p	**3** 11^{35} p	**12** 3^{48} a	**12** 7^{48} a	**12** 11^{38} a	**12** 3^{39} p	**12** 7^{39} p	**12** 11^{44} p
2½	N 43 W 11	N 35 W 30	S 46 E 34	N 08 W 20	N 40 W 40	S 45 E 42	N 53 W 25	S 53 E 36	N 24 W 33	N 20 W 31	S 32 W 7	N 87 W 7
5	N 53 W 14	N 39 W 33	S 40 E 38	N 08 W 20	N 22 W 39	S 37 E 48	N 41 W 25	S 43 E 32	N 30 W 33	N 23 W 34	S 40 E 21	W 7
10	N 62 W 7	N 35 W 30	S 29 E 42	N 08 W 18	N 22 W 38	S 36 E 42	N 30 W 26	S 63 E 38	N 10 W 35	N 19 W 36	S 35 E 20	N 83 W 13
15	N 61 W 7	N 46 W 23	S 24 E 45	N 25 W 17	N 23 W 37	S 38 E 38	N 46 W 23	S 53 E 33	N 40 W 34	N 20 W 39	S 40 E 22	S 85 W 7
20	N 38 W 10	N 46 W 17	S 16 E 38	N 13 W 20	N 18 W 33	S 42 E 37	N 34 W 20	S 50 E 34	N 24 W 34	N 23 W 42	S 36 E 22	S 89 W 6
25	N 21 W 14	N 64 W 12	S 18 E 34	N 08 W 25	N 26 W 32	S 38 E 36	N 38 W 19	S 46 E 29	N 36 W 43	N 08 W 40	S 60 E 16	E 1
27½	N 06 W 15	N 69 W 12	S 22 E 31	N 08 W 25	N 30 W 28	S 34 E 31	N 02 W 20	S 04 W 23	N 16 W 31	N 10 W 35	S 08 E 16	E 1
30	N 06 E 13	S 70 W 8	S 21 E 26	N 08 W 25	N 40 W 22	S 22 E 31	N 35 W 22	S 22	N 29 W 30	N 10 W 30	S 03 W 16	E 1
	4 3^{44} a	**4** 7^{44} a	**4** 11^{48} a	**4** 3^{48} p	**4** 7^{48} p	**4** 11^{48} p	**13** 3^{38} a	**13** 7^{48} a	**13** 11^{44} a	**13** 3^{39} p	**13** 7^{48} p	**13** 11^{40} p
2½	N 33 W 7	N 20 W 24	S 20 E 59	0	N 13 W 16	S 35 E 40	N 48 W 30	S 53 E 29	0	N 26 W 24	S 46 E 20	S 64 E 16
5	N 36 W 13	N 28 W 22	S 31 E 47	S 06 W 11	N 18 W 33	S 37 E 46	N 48 W 26	S 42 E 33	S 20 E 13	N 10 W 24	S 42 E 29	S 62 E 21
10	N 27 W 16	N 38 W 23	S 31 E 46	S 05 W 11	N 20 W 32	S 35 E 44	N 49 W 21	S 41 E 31	S 04 E 7	N 20 W 26	S 45 E 28	S 62 E 24
15	N 24 W 18	N 28 W 23	S 32 E 56	0	N 26 W 23	S 38 E 41	N 48 W 25	S 30 E 31	S 06 W 7	N 16 W 26	S 26 E 25	S 28 E 24
20	N 27 W 24	N 38 W 22	S 28 E 55	N 52 E 7	N 43 W 23	S 41 E 37	N 43 W 20	S 28 E 33	N 05 W 1	N 20 W 30	S 21 E 25	S 51 E 23
25	N 16 W 25	N 38 W 25	S 28 E 53	N 63 E 7	N 35 W 22	S 58 E 37	N 40 W 12	S 16 E 31	N 05 W 1	N 12 W 32	S 24 E 30	S 48 E 31
27½	N 10 W 27	N 50 W 20	S 31 E 53	N 54 E 7	N 44 W 22	S 56 E 33	N 45 W 5	S 15 E 31	S 86 E 9	N 12 W 28	S 24 E 37	S 46 E 32
30	N 22 W 27	N 45 W 20	S 24 E 54	N 49 E 7	N 80 W 20	S 20 E 30	S 45 E 6	S 24 E 30	N 76 E 11	N 35 W 13	S 28 E 42	S 44 E 26
	5 3^{38} a	**5** 7^{44} a	**5** 11^{44} a	**5** 3^{48} p	**5** 7^{44} p	**5** 11^{48} p	**14** 3^{39} a	**14** 7^{44} a	**14** 11^{44} a	**14** 3^{49} p	**14** 7^{48} p	**14** 11^{48} p
2½	S 21 E 19	N 79 W 25	S 55 E 25	S 52 W 19	N 41 W 36	S 02 W 25	N 09 E 22	N 61 E 34	N 41 E 11	N 08 W 64	N 27 E 19	N 77 E 36
5	S 14 E 19	N 76 W 30	S 54 E 32	N 52 E 1	N 42 W 49	S 17 W 25	N 16 E 26	S 74 E 26	N 27 E 14	N 19 W 71	N 53 E 19	N 62 E 32
10	S 18 E 10	N 74 W 30	S 55 E 33	N 52 E 1	N 46 W 46	S 06 W 26	N 15 E 28	S 74 E 22	N 74 E 19	N 27 W 75	N 26 E 18	N 80 E 31
15	S 60 E 10	N 60 W 36	S 44 E 25	N 52 E 1	N 46 W 45	S 25 E 31	N 17 E 27	S 60 E 20	N 84 E 18	N 20 W 70	N 24 E 17	N 87 E 28
20	S 78 E 10	N 57 W 29	S 36 E 28	S 86 E 19	N 49 W 44	S 40 E 38	N 30 E 30	S 67 E 21	N 69 E 22	N 20 W 61	N 20 W 17	S 76 E 22
25	E 7	N 49 W 21	S 35 E 32	N 20 E 19	N 44 W 44	S 34 E 37	N 22 E 33	S 70 E 25	N 56 E 22	N 22 W 68	N 25 W 17	S 64 E 18
27½	S 30 E 9	N 18 W 13	S 36 E 31	N 55 E 23	N 44 W 43	S 35 E 30	N 38 E 33	S 50 E 29	S 41 E 18	N 21 W 65	N 23 W 17	S 72 E 18
30	S 84 E 8	S 64 E 10	S 40 E 27	N 19 E 23	N 46 W 44	S 20 E 30	N 30 E 31	S 61 E 27	S 56 E 17	N 36 W 59	N 66 W 18	N 69 E 10
	6 3^{48} a	**6** 7^{44} a	**6** 11^{44} a	**6** 3^{48} p	**6** 7^{44} p	**6** 11^{40} p	**15** 3^{40} a	**15** 7^{38} a	**15** 11^{44} a	**15** 3^{44} p	**15** 7^{42} p	**15** 11^{48} p
2½	S 45 W 40	S 64 W 16	S 20 W 46	S 03 E 53	S 86 W 9	S 53 E 29	N 25 W 36	N 46 W 22	S 31 E 34	N 11 W 46	N 41 W 33	S 26 E 33
5	S 14 W 32	N 81 W 16	S 18 W 53	S 12 E 56	S 88 W 14	S 48 E 42	N 48 W 59	N 50 W 26	S 19 E 35	N 14 W 53	N 33 W 31	S 22 E 39
10	S 10 E 36	N 78 W 25	S 05 W 57	S 08 E 64	N 85 W 16	S 48 E 47	N 20 W 78	N 44 W 25	S 06 W 34	N 32 W 57	N 49 W 33	S 22 E 38
15	S 05 E 30	N 65 W 24	S 06 E 62	S 16 E 64	N 84 W 18	S 51 E 46	N 36 W 75	N 47 W 20	S 21 W 28	N 26 W 63	N 51 W 32	S 17 E 37
20	S 22 E 14	N 71 W 27	S 16 E 65	S 16 E 64	N 85 W 21	S 52 E 47	N 19 W 68	N 51 W 16	S 21 W 27	N 34 W 67	N 48 W 34	S 26 E 35
25	S 26 E 22	N 80 W 26	S 18 E 65	S 21 E 57	N 80 W 24	S 46 E 46	N 25 W 66	N 14 E 16	N 58 W 27	N 23 W 67	N 42 W 29	S 15 E 34
27½	S 08 E 16	N 04 W 20	S 25 E 60	S 36 E 61	N 53 W 32	S 46 E 45	N 49 W 65	N 20	N 26 W 23	N 25 W 64	S 89 W 24	S 23 E 28
30	S 12 E 16	N 48 W 19	S 42 E 52	S 34 E 63	N 35 W 27	S 36 E 35	N 40 W 57	N 12 E 20	N 16 W 29	N 28 W 58	S 45 W 18	S 06 W 28
	7 3^{48} a	**7** 7^{48} a	**7** 11^{41} a	**7** 3^{50} p	**7** 7^{39} p	**7** 11^{44} p	**16** 3^{48} a	**16** 7^{38} a	**16** 11^{38} a	**16** 3^{42} p	**16** 7^{44} p	**16** 11^{44} p
2½	S 23 E 25	N 18 W 50	N 33 W 11	S 20 E 46	N 13 W 19	N 86 E 20	S 37 W 20	0	S 31 E 55	N 37 E 14	S 57 E 7	S 27 E 68
5	S 25 E 46	N 15 W 45	N 52 W 19	S 27 E 50	N 48 W 19	S 89 E 25	N 84 W 29	S 17 E 11	S 31 E 58	N 26 E 24	S 50 E 7	S 26 E 63
10	S 46 E 38	N 20 W 44	S 42 E 19	S 33 E 51	N 26 W 20	S 72 E 30	S 86 W 28	S 33 E 19	S 33 E 64	N 16 E 26	S 49 E 9	S 32 E 69
15	S 53 E 42	N 14 W 38	S 23 E 22	S 36 E 56	N 24 E 18	S 66 E 30	N 56 W 25	S 05 E 18	S 30 E 68	N 12 W 22	S 53 E 13	S 28 E 62
20	S 36 E 40	N 04 W 32	S 35 E 10	S 28 E 55	S 16 E 5	S 71 E 34	N 47 W 23	S 20	S 19 E 53	N 07 W 19	S 35 E 18	S 25 E 56
25	S 54 E 34	N 06 E 27	S 45 E 8	S 10 E 49	N 55 E 10	S 69 E 37	N 31 W 23	S 10 E 28	S 17 E 52	N 16 W 13	S 28 E 17	S 25 E 50
27½	S 51 E 34	N 08 E 25	S 55 E 12	S 08 E 46	N 31 E 9	S 70 E 33	N 16 W 23	S 14 E 28	S 34 E 48	N 15 W 8	S 32 E 20	S 26 E 40
30	S 62 E 26	N 08 E 24	S 50 E 14	S 12 E 45	S 18 E 5	S 65 E 31	N 10 W 21	S 21 E 30	S 35 E 41	N 14 W 6	S 35 E 23	S 25 E 34
	8 3^{44} a	**8** 7^{48} a	**8** 11^{44} a	**8** 3^{48} p	**8** 7^{48} p	**8** 11^{39} p	**17** 3^{48} a	**17** 7^{48} a	**17** 11^{39} a	**17** 3^{49} p	**17** 7^{36} p	**17** 11^{44} p
2½	S 17 E 25	N 28 W 53	N 22 W 40	0	N 04 W 80	N 03 W 70	N 57 E 19	0	S 71 E 48	N 05 W 31	N 36 E 16	S 52 E 36
5	S 32 E 40	N 30 W 52	N 24 W 44	0	N 02 W 78	N 19 W 69	N 48 E 19	S 87 E 18	S 55 E 47	N 11 W 36	N 21 W 20	S 56 E 39
10	S 23 E 44	N 22 W 50	N 20 W 47	0	N 04 W 71	N 10 W 67	N 30 E 15	S 74 E 21	S 54 E 57	N 18 W 36	N 19 W 32	S 56 E 43
15	S 21 E 40	N 16 W 50	N 26 W 43	S 78 E 19	N 04 W 62	N 16 W 64	N 22 E 14	N 66 E 24	S 36 E 56	N 13 W 38	N 37 W 33	S 46 E 43
20	S 27 E 38	N 16 W 46	N 36 W 41	S 83 E 18	N 13 W 60	N 28 W 67	N 18 W 15	S 66 W 23	S 48 E 65	N 11 W 34	N 31 W 36	S 49 E 45
25	S 24 E 43	N 24 W 45	N 30 W 33	N 83 W 3	N 15 W 53	N 24 W 59	N 43 W 10	S 77 W 17	S 34 E 45	N 08 W 30	N 59 W 36	S 30 E 48
27½	S 46 E 37	N 20 W 44	N 27 W 30	N 83 W 3	N 32 W 52	N 24 W 48	N 37 W 10	S 75 W 15	S 25 E 33	N 10 W 33	N 56 W 36	S 17 E 46
30	S 21 E 33	N 20 W 44	N 31 W 27	N 83 W 3	N 33 W 52	N 25 W 47	N 50 W 10	S 61 W 14	S 53 E 32	N 22 W 40	N 48 W 33	S 34 E 48
	9 3^{44} a	**9** 7^{44} a	**9** 11^{48} a	**9** 3^{48} p	**9** 7^{48} p	**9** 11^{48} p	**18** 3^{45} a	**18** 7^{44} a	**18** 11^{48} a	**18** 3^{38} p	**18** 7^{48} p	**18** 11^{38} p
2½	N 10 W 27	N 31 W 67	N 28 W 58	N 38 W 36	S 89 W 58	N 61 W 59	N 03 W 24	N 13 W 20	S 35 E 42	0	N 31 E 33	S 55 E 36
5	N 06 W 33	N 25 W 73	N 54 W 75	N 45 W 36	W 58	N 66 W 73	N 35 W 23	N 24 W 19	S 41 E 53	N 04 W 11	N 53 W 38	S 61 E 36
10	N 10 W 35	N 17 W 74	N 53 W 81	N 43 W 41	N 82 W 65	N 64 W 68	N 41 W 28	N 44 W 23	S 47 E 57	N 05 W 16	N 14 W 38	S 49 E 35
15	N 06 W 33	N 18 W 74	N 51 W 78	N 49 W 42	N 58 W 54	N 32 W 67	N 42 W 27	N 40 W 28	S 37 E 53	N 27 W 20	N 21 W 33	S 34 E 46
20	N 16 W 30	N 20 W 71	N 35 W 75	N 52 W 46	N 41 W 53	N 47 W 59	N 45 W 27	N 35 W 33	S 34 E 43	N 22 W 25	N 31 W 33	S 36 E 53
25	N 10 W 22	N 16 W 69	N 35 W 73	N 38 W 45	N 40 W 51	N 34 W 58	N 34 W 32	N 44 W 26	S 39 E 42	N 03 W 28	N 20 W 32	S 50 E 44
27½	N 06 E 18	N 21 W 69	N 45 W 73	N 53 W 32	N 35 W 55	N 37 W 53	N 34 W 31	N 54 W 26	S 43 E 29	N 18 W 27	N 22 W 29	S 52 E 26
30	N 26 E 20	N 20 W 72	N 45 W 70	N 38 W 17	N 55 W 54	N 50 W 52	N 33 W 31	N 72 W 26	S 31 E 29	N 19 W 30	N 55 W 29	S 44 E 22

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	**19** 3^{38} a	**19** 7^{45} a	**19** 11^{48} a	**19** 3^{48} p	**19** 7^{44} p	**19** 11^{48} p	**28** 3^{45} a	**28** 7^{44} a	**28** 11^{44} a	**28** 3^{48} p	**28** 7^{48} p	**28** 11^{40} p
2½	N 38 W 19	N 22 W 19	S 53 E 40	N 73 W 11	N 13 W 25	S 73 E 48	N 02 W 19	S 79 E 33	N 09 W 25	N 18 W 48	S 26 E 33	S 37 W 19
5	N 37 W 21	N 25 W 24	S 40 E 46	N 05 W 9	N 13 W 33	S 53 E 58	N 01 E 19	S 71 E 35	N 14 W 30	N 20 W 58	S 28 E 37	S 30 W 11
10	N 36 W 21	N 34 W 28	S 45 E 44	N 32 W 9	N 24 W 24	S 50 E 55	N 02 W 18	S 78 E 38	N 18 W 30	N 30 W 34	S 42 E 36	N 33 E 2
15	N 34 W 26	N 35 W 27	S 45 E 36	N 51 W 9	N 36 W 23	S 64 E 51	N 21 W 22	S 84 E 44	N 13 W 33	N 40 W 56	S 44 E 33	S 12 W 10
20	N 30 W 27	N 32 W 33	S 42 E 35	N 26 W 18	N 49 W 23	S 44 E 54	N 39 W 28	S 87 E 43	N 30 W 35	N 44 W 66	S 35 E 30	N 28 E 2
25	N 34 W 32	N 53 W 32	S 33 E 30	N 33 W 22	N 56 W 19	S 48 E 56	N 44 W 27	S 88 E 42	N 27 W 37	N 42 W 42	S 28 E 36	N 28 E 2
27½	N 33 W 33	N 58 W 25	S 10 E 21	N 24 W 20	N 57 W 19	S 39 E 52	N 48 W 33	N 89 E 33	N 15 W 36	N 38 W 41	S 12 E 36	N 28 E 2
30	N 16 W 33	N 50 W 25	S 20 E 21	N 19 W 17	N 57 W 15	S 43 E 38	N 47 W 32	N 86 E 33	N 12 W 31	N 36 W 41	S 02 W 40	S 38 E 11
	20 3^{40} a	**20** 7^{44} a	**20** 11^{45} a	**20** 3^{50} p	**20** 7^{45} p	**20** 11^{38} p	**29** 3^{39} a	**29** 7^{45} a	**29** 11^{48} a	**29** 3^{48} p	**29** 7^{38} p	**29** 11^{48} p
2½	0	N 10 W 44	S 88 E 25	N 15 W 7	N 28 W 40	N 65 E 14	N 33 W 37	S 73 E 25	0	N 18 W 80	N 23 W 24	S 58 E 16
5	N 63 W 11	N 12 W 44	S 83 E 33	N 13 W 13	N 31 W 46	N 67 E 14	N 36 W 39	S 66 E 25	S 73 E 11	N 20 W 74	N 11 W 18	S 63 E 16
10	N 55 W 11	N 09 W 47	S 76 E 31	N 09 W 19	N 35 W 44	S 87 E 18	N 34 W 43	S 63 E 24	S 71 E 11	N 19 W 70	N 18 E 8	S 77 E 16
15	N 20 W 14	N 12 W 40	S 70 E 31	N 15 W 18	N 35 W 43	S 80 E 17	N 37 W 37	S 53 E 31	N 46 E 19	N 17 W 65	N 46 E 8	S 18
20	N 58 W 18	N 15 W 31	S 61 E 30	N 24 W 20	N 19 W 43	S 65 E 20	N 29 W 36	S 49 E 31	N 25 E 15	N 19 W 60	N 67 E 10	S 11 W 15
25	N 40 W 20	N 34 W 34	S 48 E 21	N 26 W 20	N 16 W 34	S 67 E 20	N 30 W 30	S 51 E 30	N 06 E 12	N 28 W 48	S 74 E 11	S 06 W 12
27½	N 19 W 23	N 30 W 38	S 11 E 22	N 42 W 21	N 20 W 33	S 10 E 11	N 30 W 23	S 36 E 34	N 20 W 6	N 26 W 47	N 88 E 11	S 14 W 12
30	N 10 W 20	N 44 W 43	S 03 W 23	N 35 W 23	N 20 W 33	S 04 E 13	N 31 W 18	S 36 E 36	N 21 E 9	N 35 W 38	N 75 E 17	N 24 W 2
	21 3^{48} a	**21** 7^{39} a	**21** 11^{44} a	**21** 3^{45} p	**21** 7^{39} p	**21** 11^{45} p	**30** 3^{38} a	**30** 7^{49} a	**30** 11^{45} a	**30** 3^{48} p	**30** 7^{45} p	**30** 11^{39} p
2½	N 08 W 14	N 30 W 58	S 17 E 19	N 38 W 40	N 26 W 74	S 41 E 24	N 38 W 55	N 80 E 19	N 45 E 11	N 53 W 46	N 05 W 11	S 43 E 33
5	N 12 W 20	N 38 W 63	S 04 E 19	N 19 W 32	N 29 W 65	S 39 E 23	N 36 W 58	S 86 E 19	N 59 E 11	N 51 W 52	N 08 W 11	S 38 E 39
10	N 46 W 18	N 20 W 64	S 09 E 21	N 01 W 31	N 33 W 64	S 55 E 22	N 36 W 57	S 89 E 20	N 77 E 11	N 43 W 46	N 34 E 11	S 40 E 38
15	N 21 W 20	N 20 W 63	S 20 E 21	N 04 W 31	N 31 W 67	S 31 E 17	N 44 W 51	S 82 E 17	S 68 E 1	N 39 W 43	N 29 E 11	S 32 E 34
20	N 30 W 20	N 28 W 61	S 20 E 17	N 01 W 22	N 34 W 66	S 30 E 16	N 36 W 49	S 42 E 20	S 68 E 1	N 40 W 41	N 04 W 18	S 30 E 32
25	N 37 W 20	N 48 W 36	S 34 E 20	N 23 W 11	N 28 W 58	S 38 E 16	N 42 W 41	S 22 E 21	N 03 W 11	N 36 W 39	N 26 W 18	S 20 E 29
27½	N 17 W 21	N 33 W 35	S 38 E 22	N 21 W 11	N 26 W 53	S 35 E 16	N 36 W 33	S 26 E 23	N 04 E 11	N 39 W 39	N 30 W 9	S 11 E 29
30	N 13 W 21	N 14 W 41	S 41 E 24	S 11 E 8	N 30 W 47	S 16 W 17	N 26 E 27	S 22 E 21	S 68 E 1	N 36 W 38	N 38 W 9	S 14 E 25
	22 3^{49} a	**22** 7^{48} a	**22** 11^{45} a	**22** 3^{44} p	**22** 7^{38} p	**22** 11^{38} p	**31** 3^{48} a	**31** 7^{39} a	**31** 11^{46} a	**31** 3^{44} p	**31** 7^{44} p	**31** 11^{45} p
2½	0	N 33 W 33	N 82 E 24	0	N 02 E 11	N 66 W 14	N 13 W 11	N 32 W 14	S 35 E 45	N 07 E 25	N 25 W 31	S 80 E 30
5	S 55 E 19	N 31 W 32	S 43 E 19	0	N 37 W 30	N 69 W 19	N 20 W 14	N 42 W 24	S 30 E 44	N 15 W 30	N 21 W 36	S 36 E 23
10	S 59 E 19	N 35 W 52	S 39 E 18	0	N 30 W 36	N 50 W 12	N 27 W 14	N 35 W 26	S 40 E 47	N 36 W 39	N 12 W 34	S 43 E 22
15	S 53 E 13	N 27 W 56	S 39 E 9	N 7	N 34 W 38	N 33 W 8	N 14 W 14	N 40 W 17	S 41 E 46	N 34 W 44	N 11 W 38	S 63 E 22
20	N 82 E 10	N 30 W 53	N 16 W 20	N 02 W 9	N 34 W 40	N 42 W 17	N 27 W 20	N 76 W 9	S 36 E 48	N 22 W 44	N 12 W 37	S 58 E 21
25	N 46 E 18	N 31 W 51	N 16 W 24	N 13 W 14	N 27 W 43	S 71 W 20	N 37 W 26	S 84 W 6	S 16 E 44	N 18 W 42	N 27 W 33	S 39 E 21
27½	N 11 E 19	N 34 W 49	N 21 W 24	N 16 W 18	N 38 W 43	S 36 W 25	N 37 W 28	S 47 E 5	S 11 E 43	N 33 W 48	N 31 W 27	S 41 E 24
30	N 20 W 15	N 37 W 47	N 23 W 23	N 24 W 20	N 38 W 42	S 21 W 25	N 35 W 27	S 47 E 5	S 28 E 37	N 29 W 47	N 40 W 20	S 58 E 26
	23 3^{45} a	**23** 7^{43} a	**23** 11^{48} a	**23** 3^{45} p	**23** 7^{48} p	**23** 11^{38} p	**1** 3^{39} a	**1** 7^{48} a	**1** 11^{38} a	**1** 3^{44} p	**1** 7^{39} p	**1** 11^{39} p
2½	S 53 E 30	N 43 W 25	S 49 E 20	S 35 E 59	S 32 W 16	0	N 53 W 25	N 22 W 14	S 76 E 48	N 06 W 25	N 11 E 30	S 83 E 34
5	S 42 E 23	N 48 W 25	N 49 W 1	S 25 E 69	N 53 W 20	0	N 43 W 25	N 10 W 20	S 56 E 41	N 04 W 25	N 15 W 39	S 70 E 37
10	S 30 E 22	N 43 W 24	S 86 E 14	S 23 E 67	N 60 W 18	S 36 W 11	N 40 W 20	N 12 W 23	S 60 E 46	N 07 W 24	N 30 W 37	S 53 E 43
15	S 16 E 22	N 32 W 23	S 68 E 10	S 25 E 65	N 53 W 17	S 57 E 11	N 38 W 20	N 20 W 22	S 56 E 56	N 14 W 29	N 29 W 36	S 50 E 42
20	S 19 E 21	N 36 W 29	S 17 E 18	S 25 E 40	N 68 W 14	0	N 25 W 31	N 27 W 20	S 62 E 61	N 14 W 28	N 24 W 36	S 55 E 45
25	S 36 E 12	N 27 W 30	S 03 W 18	S 38 E 26	N 72 W 14	0	N 30 W 38	N 89 W 19	S 33 E 49	N 21 W 29	N 34 W 31	S 45 E 47
27½	N 31 W 6	N 15 W 26	S 36 W 20	S 36 E 26	N 34 W 11	S 12 W 11	N 30 W 35	S 86 W 17	S 30 E 42	N 27 W 27	N 31 W 30	S 34 E 49
30	N 31 W 6	N 05 W 22	S 51 W 23	S 40 E 26	N 30 W 9	S 01 W 19	N 27 W 37	S 62 W 17	S 37 E 48	N 08 W 21	N 43 W 21	S 32 E 49
	24 3^{38} a	**24** 7^{45} a	**24** 11^{32} a	**24** 3^{45} p	**24** 7^{44} p	**24** 11^{48} p	**2** 3^{45} a	**2** 7^{48} a	**2** 11^{48} a	**2** 3^{49} p	**2** 7^{48} p	**2** 11^{38} p
2½	S 43 E 36	N 51 E 25	N 56 W 24	S 32 E 48	S 68 E 25	N 23 W 25	N 12 W 33	N 23 W 40	N 65 E 50	N 09 E 42	N 33 W 59	0
5	S 40 E 39	N 63 E 25	N 24	S 31 E 47	S 52 E 29	N 25 W 29	N 22 W 33	N 20 W 39	S 82 E 42	N 01 W 41	N 41 W 69	N 28 W 14
10	S 36 E 38	N 71 E 24	N 23 W 23	S 34 E 57	S 58 E 32	N 44 W 39	N 23 W 36	N 27 W 41	S 80 E 51	N 03 E 58	N 45 W 77	N 51 W 19
15	S 35 E 42	N 07 E 24	N 26 W 33	S 36 E 56	S 52 E 23	N 52 W 35	N 20 W 38	N 26 W 34	N 87 E 45	N 30 W 46	N 41 W 74	N 23 W 18
20	S 44 E 45	N 09 E 31	N 16 W 34	S 32 E 54	S 41 E 22	N 32 W 32	N 20 W 37	N 40 W 31	S 69 E 34	N 25 W 45	N 60 W 72	S 32 E 4
25	S 50 E 48	N 09 E 30	N 26 W 33	S 26 E 42	S 22 E 12	N 31 W 24	N 08 W 29	N 40 W 28	S 30 E 28	N 45 W 32	N 65 W 71	S 32 E 4
27½	S 44 E 44	N 19 W 31	N 04 W 35	S 18 E 29	S 39 E 12	N 31 W 20	N 13 W 29	N 56 W 19	S 16 E 24	N 60 W 32	N 41 W 68	S 32 E 4
30	S 42 E 38	N 54 W 24	N 21 W 34	S 21 E 28	S 70 E 12	N 39 W 16	N 10 W 23	N 55 W 19	S 17 E 20	N 61 W 23	N 44 W 66	S 32 E 4
	25 3^{39} a	**25** 7^{44} a	**25** 11^{45} a	**25** 3^{48} p	**25** 7^{45} p	**25** 11^{38} p	**3** 3^{39} a	**3** 7^{45} a	**3** 11^{43} a	**3** 3^{48} p	**3** 7^{44} p	**3** 11^{48} p
2½	N 77 E 25	N 13 W 22	N 85 E 19	S 53 E 19	S 43 E 25	N 43 W 11	N 16 W 25	N 12 E 34	N 57 E 40	N 27 E 48	N 18 W 67	N 49 E 24
5	S 57 E 25	N 17 W 26	N 57 E 30	S 48 E 16	S 46 E 33	N 33 W 20	N 13 W 25	N 17 W 76	N 67 E 39	N 24 E 58	N 18 W 75	N 47 E 21
10	S 54 E 24	N 20 W 28	N 57 E 33	S 40 E 10	S 32 E 31	N 37 W 29	N 06 W 30	N 20 W 68	N 73 E 31	N 02 W 57	N 25 W 73	N 10 E 23
15	N 83 E 27	N 04 W 26	N 57 E 37	N 35 W 2	S 34 E 31	N 30 W 22	N 10 W 34	N 23 W 73	N 74 E 25	N 16 W 58	N 24 W 61	N 20 E 28
20	S 66 E 22	N 08 W 24	N 58 E 35	S 16 W 7	S 14 E 22	N 32 W 27	N 04 W 37	N 26 W 74	S 80 E 30	N 17 W 60	N 17 W 59	N 16 E 27
25	S 53 E 17	N 05 W 24	N 46 E 30	S 40 W 5	S 17 W 22	N 36 W 26	N 06 W 42	N 28 W 60	E 20	N 09 W 62	N 38 W 58	N 06 W 34
27½	S 84 E 17	N 08 W 26	N 47 E 29	S 14 W 8	S 04 E 21	N 38 W 26	N 08 E 49	N 32 W 67	S 87 E 29	N 06 E 39	N 32 W 47	N 06 W 36
30	S 67 E 17	N 11 W 26	N 44 E 28	S 25 W 10	S 16 E 18	N 40 W 23	N 18 W 44	N 41 W 64	S 70 E 23	N 17 W 39	N 27 W 46	N 17 E 31
	26 3^{48} a	**26** 7^{38} a	**26** 11^{44} a	**26** 3^{45} p	**26** 7^{39} p	**26** 11^{45} p	**4** 3^{38} a	**4** 7^{48} a	**4** 11^{45} a	**4** 3^{44} p	**4** 7^{45} p	**4** 11^{38} p
2½	N 72 E 7	S 47 E 24	N 32 W 30	N 58 W 19	S 17 E 50	N 35 W 25	N 22 E 25	N 63 W 46	S 13 E 33	S 23 E 40	S 87 W 29	S 41 E 25
5	N 85 E 7	S 44 E 29	N 30 W 36	N 81 W 19	S 13 E 52	N 32 W 28	N 12 E 37	N 70 W 53	S 01 E 37	S 12 E 39	S 88 W 33	S 30 E 31
10	S 77 E 11	S 40 E 28	N 32 W 37	N 41 W 10	S 17 E 53	N 26 W 32	N 24 W 38	N 60 W 57	S 13 W 27	S 13 E 31	N 86 W 27	S 33 E 38
15	S 40 E 11	S 36 E 27	N 33 W 32	S 66 E 3	S 23 E 48	N 33 W 31	N 32 W 38	N 65 W 62	S 28 E 15	S 30	N 85 W 26	S 30 E 38
20	S 26 E 11	S 26 E 26	N 34 W 31	N 63 W 18	S 21 E 44	N 26 W 30	N 09 W 37	N 49 W 69	S 15 E 26	S 01 E 34	S 67 W 17	S 27 E 30
25	S 09 E 8	S 30 E 26	N 28 W 28	N 52 W 17	S 27 E 43	N 24 W 37	N 01 E 45	N 36 W 73	S 10 E 30	S 16 E 29	S 01 W 24	S 24 E 29
27½	S 10 E 10	S 34 E 27	N 37 W 26	S 63 E 4	S 35 E 41	N 25 W 26	N 42	N 25 W 68	S 08 E 37	S 14 E 29	S 20 E 21	S 21 E 36
30	S 11 E 14	S 37 E 27	N 31 W 20	S 68 E 13	S 37 E 36	N 31 W 20	N 09 E 30	N 22 W 71	S 10 E 39	S 38 E 29	S 34 E 22	S 24 E 36
	27 3^{38} a	**27** 7^{48} a	**27** 11^{45} a	**27** 3^{50} p	**27** 7^{38} p	**27** 11^{39} p	**5** 3^{48} a	**5** 7^{41} a	**5** 11^{44} a	**5** 3^{48} p	**5** 7^{39} p	**5** 11^{44} p
2½	N 23 W 46	N 27 E 21	N 39 W 70	N 30 W 45	S 60 E 36	S 09 E 22	S 41 E 40	N 28 W 33	N 57 E 16	S 48 E 36	N 11 W 29	N 06 W 53
5	N 19 W 39	N 22 E 33	N 43 W 69	N 36 W 48	S 46 E 36	S 04 E 21	S 31 E 46	N 36 W 24	E 21	S 46 E 57	N 26 W 34	N 10 W 52
10	N 17 W 38	N 03 W 23	N 26 W 66	N 33 W 48	S 28 E 35	S 02 E 18	S 33 E 37	N 44 W 19	S 67 E 13	S 43 E 53	N 23 W 29	N 01 W 49
15	N 20 W 40	N 17 E 23	N 23 W 74	N 34 W 52	S 58 E 47	S 28 W 12	S 26 E 44	N 39 W 20	N 80 W 3	S 32 E 60	N 16 W 34	N 09 W 48
20	N 17 W 43	N 25 E 26	N 15 W 72	N 35 W 49	S 09 E 39	N 02 W 4	S 27 E 42	N 17 W 27	S 09 E 10	S 37 E 60	N 15 W 37	N 12 W 38
25	N 12 W 35	N 10 E 31	N 13 W 69	N 40 W 45	S 42 E 45	N 68 W 8	S 24 E 38	N 02 W 27	S 07 W 20	S 43 E 47	N 25 W 33	N 28 W 32
27½	N 14 W 34	N 12 E 32	N 13 W 68	N 34 W 44	S 08 E 45	N 60 W 15	S 53 E 26	N 06 E 23	S 14 E 20	S 36 E 40	N 20 W 30	N 54 W 33
30	N 17 W 34	N 11 E 32	N 26 W 56	N 44 W 43	S 19 E 37	N 18 W 22	S 67 E 26	N 11 E 22	S 14 E 24	S 30 E 34	N 21 W 25	N 66 W 28

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	6 3^{39} a	6 7^{48} a	6 11^{44} a	6 3^{49} p	6 7^{38} p	6 11^{39} p	15 3^{48} a	15 7^{38} a	15 11^{44} a	15 3^{44} p	15 7^{36} p	15 11^{40} p
2½	N 01 W 43	N 08 W 85	N 05 E 81	N 36 W 19	N 24 E 21	N 25 W 37	N 05 W 48	N 15 W 55	N 01 E 22	N 22 W 33	N 33 W 45	S 49 W 11
5	N 12 E 35	N 27 W 86	N 03 W 83	N 33 W 19	N 18 W 34	N 23 W 37	N 45 W 59	N 15 W 75	N 03 E 26	N 34 W 43	N 35 W 47	S 60 W 20
10	N 04 W 38	N 27 W 83	N 13 W 82	N 29 W 21	N 30 W 36	N 27 W 38	N 34 W 64	N 40 W 60	N 08 E 28	N 32 W 37	N 30 W 43	N 45 W 16
15	N 11 E 30	N 14 W 91	N 28 W 77	N 22 W 20	N 34 W 34	N 30 W 42	N 32 W 66	N 54	N 12 W 32	N 29 W 40	N 16 W 42	N 38 W 12
20	N 14 W 30	N 18 W 73	N 26 W 74	N 30 W 14	N 18 W 25	N 30 W 44	N 29 W 68	N 03 E 53	N 07 W 26	N 30 W 42	N 21 W 39	N 13
25	N 23 W 24	N 18 W 61	N 27 W 70	S 28 E 5	N 14 W 24	N 31 W 40	N 26 W 72	N 26 W 51	N 03 W 23	N 32 W 42	N 39 W 34	N 01 E 18
27½	N 34 W 29	N 19 W 67	N 19 W 65	N 23 W 5	N 31 W 14	N 18 W 45	N 43 W 71	N 03 E 46	N 10 W 23	N 39 W 41	N 36 W 30	N 01 E 19
30	N 35 W 36	N 19 W 65	N 20 W 64	N 30 W 16	N 21 W 14	N 09 W 44	N 32 W 63	N 04 E 45	N 09 E 25	N 38 W 38	N 34 W 23	N 01 W 20
	7 3^{39} a	7 7^{48} a	7 11^{44} a	7 3^{50} p	7 7^{48} p	7 11^{38} p	16 3^{39} a	16 7^{48} a	16 11^{38} a	16 3^{44} p	16 7^{39} p	16 11^{42} p
2½	S 15 E 25	N 35 W 48	N 16 W 55	N 02 W 11	N 25 W 33	N 37 W 46	N 38 W 59	N 13 W 40	S 42 E 19	N 33 W 62	N 08 W 48	S 46 E 31
5	S 16 E 31	N 40 W 54	N 20 W 52	N 08 E 14	N 18 W 32	N 36 W 45	N 36 W 58	N 25 W 39	S 72 E 21	N 20 W 64	N 17 W 47	S 50 E 36
10	S 20 E 32	N 37 W 57	N 16 W 57	N 24 E 19	N 04 W 31	N 29 W 44	N 38 W 56	N 31 W 41	S 74 E 23	N 14 W 69	N 40 W 53	S 53 E 38
15	S 18 E 27	N 38 W 46	N 12 W 62	N 67 E 20	N 20 W 19	N 28 W 43	N 31 W 66	N 49 W 44	S 69 E 33	N 17 W 69	N 16 W 61	S 58 E 34
20	S 08 E 24	N 38 W 47	N 12 W 54	S 78 E 10	N 03 E 19	N 34 W 38	N 27 W 53	N 39 W 43	S 45 E 34	N 22 W 73	N 30 W 63	S 76 E 26
25	S 15 W 20	N 34 W 34	N 13 W 47	S 58 E 14	N 21 E 12	N 34 W 33	N 25 W 63	N 38 W 44	S 80 E 33	N 19 W 75	N 28 W 61	S 69 E 20
27½	N 86 W 22	N 06 W 17	N 12 W 52	E 13	N 19 E 12	N 40 W 30	N 20 W 55	N 44 W 40	N 63 E 29	N 01 E 73	N 28 W 59	S 48 E 13
30	N 43 W 22	N 11 W 20	N 13 W 59	S 36 E 14	N 30 E 12	N 56 W 25	N 25 W 49	N 44 W 35	N 56 E 20	N 08 W 65	N 30 W 49	N 54 W 11
	8 3^{39} a	8 7^{45} a	8 11^{42} a	8 3^{48} p	8 7^{44} p	8 11^{48} p	17 3^{40} a	17 7^{40} a	17 11^{48} a	17 3^{52} p	17 7^{48} p	17 11^{48} p
2½	N 11 W 19	N 23 W 25	N 23 W 76	N 41 W 46	N 49 W 24	N 28 W 55	N 05 W 16	N 38 W 33	S 71 E 46	N 02 E 16	N 08 W 36	S 48 E 40
5	N 10 W 19	N 26 W 33	N 35 W 74	N 31 W 45	N 34 W 18	N 30 W 53	N 22 W 33	N 53 W 46	S 61 E 45	N 04 E 18	N 07 E 36	S 35 E 53
10	N 07 W 20	N 17 W 23	N 36 W 66	N 33 W 37	S 45 W 11	N 40 W 44	N 22 W 32	N 48 W 38	S 46 E 44	N 17 E 40	N 07 E 40	S 34 E 50
15	N 20 E 25	N 08 W 23	N 40 W 61	N 56 W 10	S 40 W 11	N 34 W 28	N 23 W 34	N 42 W 30	S 50 E 49	N 51 W 36	N 20 W 34	S 32 E 48
20	N 44 E 16	N 01 W 26	N 18 W 47	N 58 W 10	S 35 E 15	N 18 W 18	N 21 W 33	N 45 W 29	S 53 E 47	N 17 E 24	S 01 E 9	S 38 E 45
25	N 63 E 12	N 11 E 22	N 21 W 34	N 69 W 10	S 47 E 15	N 17 W 13	N 22 W 34	N 50 W 28	S 46 E 45	N 84 W 20	S 01 E 9	S 36 E 43
27½	N 78 E 17	N 11 E 22	N 21 W 33	N 73 W 10	S 50 E 19	N 20 W 13	N 23 W 36	S 37 E 38	S 28 E 43	N 52 W 14	N 49 W 34	S 32 E 42
30	S 76 E 18	N 21	N 26 W 32	S 11 W 5	S 60 E 19	N 20 W 13	N 26 W 36	S 38 E 33	S 23 E 38	N 51 W 19	N 46 W 34	S 52 E 42
	9 3^{38} a	9 7^{39} a	9 11^{40} a	9 3^{49} p	9 7^{44} p	9 11^{42} p	18 3^{45} a	18 7^{44} a	18 11^{48} a	18 3^{46} p	18 7^{39} p	18 11^{48} p
2½	N 29 W 53	N 40 E 9	N 37 W 46	N 33 W 67	N 01 W 11	N 33 W 57	N 13 W 19	N 22 E 25	S 63 E 43	N 45 E 19	N 28 W 33	N 81 E 33
5	N 33 W 52	N 58 E 14	N 34 W 44	N 37 W 66	S 79 E 14	N 20 W 25	N 08 E 24	N 28 W 42	S 61 E 32	N 08 E 17	N 17 W 46	N 77 E 32
10	N 01 E 42	S 77 E 19	N 28 W 41	N 42 W 45	S 45 E 37	N 19 W 19	N 16 E 22	N 28 W 44	S 52 E 31	N 31 W 24	N 20 W 51	N 88 E 29
15	N 03 W 36	S 62 E 18	N 36 W 39	N 38 W 29	S 44 E 20	N 04 W 14	N 38 E 22	N 28 W 39	S 58 E 35	N 44 W 28	N 23 W 49	S 81 E 30
20	N 04 W 32	S 44 E 20	N 28 W 38	S 14 E 6	S 36 E 21	N 03 W 5	N 52 E 21	N 26 W 38	S 58 E 37	N 12 W 27	N 26 W 41	S 87 E 37
25	N 13 W 31	N 57 E 17	N 39 W 31	S 08 E 7	S 31 E 26	N 20 W 13	N 70 E 16	N 26 W 36	S 64 E 36	N 27 W 29	N 26 W 39	S 70 E 36
27½	N 14 W 30	N 72 W 5	N 32 W 31	S 05 E 7	S 26 E 28	N 17 W 13	N 73 E 7	N 38 W 34	S 60 E 32	N 25 W 32	N 30 W 39	S 70 E 38
30	N 04 W 30	N 72 W 5	N 22 W 26	S 40 E 24	S 22 E 24	N 28 W 5	S 29 W 7	N 46 W 34	S 58 E 28	N 25 W 32	N 38 W 31	S 56 E 43
	10 3^{48} a	10 7^{38} a	10 11^{41} a	10 3^{49} p	10 7^{39} p	10 11^{45} p	19 3^{48} a	19 7^{45} a	19 11^{45} a	19 3^{38} p	19 7^{40} p	19 11^{38} p
2½	N 40 W 48	0	N 68 W 22	N 05 W 34	S 31 E 40	S 08 E 30	N 03 W 25	N 02 E 40	N 87 E 57	S 38 E 33	N 14 W 41	S 63 E 25
5	N 38 W 35	S 51 E 29	N 42 W 33	N 01 W 35	S 36 E 39	S 07 W 31	N 08 E 37	N 13 W 39	N 67 E 58	S 64 E 32	N 38 W 67	S 60 E 33
10	N 02 W 31	S 51 E 41	N 47 W 34	N 17 W 36	S 42 E 44	S 13 W 26	N 18 E 36	N 06 E 38	N 60 E 47	S 64 E 23	N 27 W 58	S 37 E 31
15	N 21 W 21	S 80 E 31	N 19 W 29	N 12 W 36	S 46 E 46	S 36 W 21	N 09 E 37	N 44	S 84 E 35	S 55 E 23	N 38 W 59	S 43 E 26
20	S 30 E 5	S 49 E 42	N 21 W 32	N 20 W 35	S 43 E 47	S 38 E 18	N 25 E 36	N 07 E 43	S 83 E 44	S 42 E 30	N 39 W 57	S 48 E 22
25	S 30 E 5	S 65 E 44	N 08 W 28	N 20 W 33	S 61 E 50	E 13	N 18 E 38	N 16 E 34	S 64 E 45	S 29 E 21	N 41 W 50	S 39 E 11
27½	S 30 E 5	S 80 E 38	N 07 E 27	N 20 W 33	S 56 E 46	N 78 E 20	N 25 E 37	N 04 E 26	S 53 E 36	S 22 E 11	N 40 W 49	S 41 E 11
30	S 30 E 5	S 67 E 37	N 16 E 26	N 20 W 32	S 54 E 45	N 24 E 25	N 29 E 34	N 01 W 26	S 88 E 40	N 49 W 8	N 44 W 46	S 57 E 11
	11 3^{43} a	11 7^{48} a	11 11^{49} a	11 3^{44} p	11 7^{38} p	11 11^{39} p	20 3^{48} a	20 7^{48} a	20 11^{45} a	20 3^{48} p	20 7^{45} p	20 11^{44} p
2½	N 28 W 46	0	N 31 W 58	N 30 W 64	N 06 W 33	N 05 W 34	N 89 E 25	N 02 E 40	S 85 E 25	S 75 E 25	N 03 W 40	N 73 W 25
5	N 23 W 52	N 12 E 11	N 33 W 75	N 27 W 65	N 10 E 33	N 08 W 37	S 74 E 33	N 14 W 46	S 83 E 39	S 78 E 37	N 03 E 39	N 48 W 38
10	N 23 W 44	S 73 E 19	N 26 W 74	N 32 W 72	N 24 E 34	N 20 W 43	S 83 E 31	N 36 W 47	S 85 E 38	N 86 E 38	N 18 W 45	N 42 W 36
15	N 23 W 38	N 76 E 18	N 22 W 74	N 29 W 74	N 46 E 26	N 16 W 43	S 84 E 26	N 28 W 49	S 89 E 30	S 74 E 37	N 16 W 44	N 04 W 38
20	N 17 W 34	N 65 E 22	N 27 W 67	N 23 W 77	N 70 E 19	N 14 W 39	S 48 E 22	N 38 W 50	N 89 E 20	S 47 E 28	N 20 W 42	N 38 W 35
25	N 10 W 33	N 60 E 24	N 24 W 61	N 32 W 64	S 50 E 25	N 20 W 34	N 73 W 8	N 35 W 46	N 76 E 20	S 51 E 20	N 25 W 41	N 26 W 33
27½	N 08 W 33	S 86 E 27	N 12 W 59	N 39 W 63	S 41 E 29	N 15 W 31	N 73 W 8	N 35 W 43	N 45 E 10	S 38 E 22	N 25 W 46	N 01 W 30
30	N 24 W 33	S 80 E 26	N 10 W 53	N 30 W 59	S 47 E 30	N 21 W 28	N 73 W 8	N 33 W 37	N 85 W 10	S 53 E 15	N 22 W 46	N 05 E 29
	12 3^{40} a	12 7^{36} a	12 11^{48} a	12 3^{46} p	12 7^{48} p	12 11^{39} p	21 3^{38} a	21 7^{48} a	21 11^{48} a	21 3^{45} p	21 7^{48} p	21 11^{45} p
2½	N 19 W 46	N 52 E 30	N 25 W 33	N 28 W 46	N 03 W 25	S 70 E 24	N 77 E 33	N 21 W 85	N 21 W 64	N 17 E 33	N 15 W 58	N 08 W 33
5	N 40 W 50	N 24 E 23	N 53 W 40	N 35 W 52	N 02 E 25	S 51 E 26	N 67 E 32	N 16 W 74	N 36 W 69	N 03 W 39	N 28 W 75	N 20 W 32
10	N 44 W 50	N 38 E 22	N 40 W 46	N 42 W 50	N 45 E 32	S 68 E 25	N 63 E 38	N 29 W 80	N 28 W 73	N 03 W 38	N 44 W 81	N 26 W 38
15	N 39 W 51	N 47 E 20	N 27 W 37	N 49 W 57	N 72 E 23	N 82 E 26	N 57 E 37	N 34 W 79	N 36 W 74	N 06 W 37	N 33 W 82	N 33 W 44
20	N 40 W 49	N 55 E 21	N 22 W 43	N 39 W 46	N 56 E 22	N 47 E 28	N 47 E 29	N 39 W 74	N 36 W 78	N 21 W 36	N 32 W 75	N 30 W 43
25	N 38 W 46	N 54 E 20	N 20 W 37	N 20 W 46	S 70 E 24	N 66 E 27	N 07 W 30	N 35 W 72	N 34 W 73	N 26 W 43	N 36 W 73	N 24 W 42
27½	N 40 W 44	N 57 E 20	N 26 W 34	N 38 W 44	S 71 E 27	N 63 E 26	N 16 W 34	N 42 W 71	N 31 W 74	N 31 W 42	N 32 W 71	N 16 W 48
30	N 44 W 44	N 70 E 23	N 08 W 27	N 44 W 40	S 38 E 25	N 60 E 23	N 34 W 36	N 46 W 66	N 33 W 72	N 36 W 42	N 29 W 66	N 11 W 47
	13 3^{36} a	13 7^{44} a	13 11^{41} a	13 3^{49} p	13 7^{44} p	13 11^{48} p	22 3^{44} a	22 7^{38} a	22 11^{48} a	22 3^{48} p	22 7^{48} p	22 11^{48} p
2½	N 36 W 36	N 49 E 30	N 52 E 19	N 13 W 46	N 23 W 30	N 17 E 19	N 43 W 33	N 47 W 71	N 13 W 48	S 13 E 33	N 51 W 36	N 37 W 36
5	N 40 W 39	N 84 E 23	N 70 E 23	N 21 W 52	N 12 W 23	N 19 E 24	N 43 W 39	N 46 W 75	N 40 W 66	S 15 E 24	N 44 W 41	N 35 W 50
10	N 44 W 44	N 80 E 26	N 07 E 19	N 45 W 43	N 03 E 9	S 19 W 4	N 27 W 50	N 48 W 72	N 51 W 65	S 06 E 28	N 47 W 40	N 62 W 51
15	N 40 W 46	N 89 E 24	N 12 W 21	N 34 W 43	N 22 E 13	N 30 E 9	N 24 W 39	N 32 W 61	N 46 W 63	S 03 W 27	N 51 W 46	N 47 W 55
20	N 27 W 49	N 85 E 22	N 05 W 26	N 18 W 34	N 34 E 17	N 35 E 9	N 16 W 29	N 32 W 49	N 51 W 61	S 16 E 38	S 50 E 9	N 41 W 52
25	N 21 W 43	N 83 E 21	N 16 E 22	N 40 W 41	N 46 E 14	N 76 E 10	N 07 W 24	N 31 W 48	N 46 W 59	S 05 E 37	S 50 E 9	N 46 W 50
27½	N 28 W 44	S 88 E 17	N 04 W 26	N 27 W 37	N 56 E 17	N 34 E 11	N 20 W 20	N 27 W 54	N 53 W 55	S 17 E 39	S 50 E 9	S 40 W 15
30	N 36 W 45	S 66 E 14	N 20 W 24	N 24 W 35	N 44 E 16	S 22 W 4	N 21 W 18	N 32 W 57	N 53 W 47	S 19 E 43	S 78 E 27	S 16
	14 3^{39} a	14 7^{39} a	14 11^{46} a	14 3^{40} p	14 7^{39} p	14 11^{35} p	23 3^{45} a	23 7^{44} a	23 11^{46} a	23 3^{48} p	23 7^{43} p	23 11^{48} p
2½	N 28 W 46	N 05 W 21	0	N 23 W 46	N 23 E 30	S 73 E 11	S 45 E 33	N 79 E 19	N 38 W 31	S 73 E 25	S 56 E 25	N 32 W 46
5	N 37 W 52	N 13 W 26	0	N 38 W 47	N 19 W 27	S 58 E 11	S 40 E 32	N 06 E 16	N 48 W 40	S 53 E 33	S 64 E 33	N 27 W 32
10	N 40 W 46	N 10 W 25	N 82 E 16	N 35 W 51	N 38 W 30	0	S 33 E 38	N 38 W 13	N 51 W 45	S 43 E 34	S 59 E 23	N 27 W 31
15	N 41 W 46	N 04 W 20	N 78 E 16	N 36 W 49	N 25 W 31	N 16 E 11	S 36 E 37	N 30 W 18	N 47 W 50	S 51 E 34	S 08 E 24	N 22 W 12
20	N 33 W 45	N 06 W 20	S 82 E 9	N 33 W 44	N 28 W 30	N 23 E 19	S 33 E 36	N 30 W 20	N 46 W 35	S 42 E 37	S 17 E 27	S 29 E 7
25	N 35 W 43	N 17 E 15	S 55 E 15	N 32 W 39	N 08 W 31	N 17 E 23	S 33 E 36	N 74 E 14	S 46 E 9	S 37 E 43	S 38 E 30	S 29 E 7
27½	N 38 W 43	N 25 E 15	N 86 E 15	N 36 W 38	N 05 W 28	N 26 E 31	S 38 E 42	N 67 E 20	N 12 E 6	S 34 E 42	S 66 E 29	S 29 E 7
30	N 30 W 41	N 34 E 18	W 2	N 32 W 38	N 02 W 28	N 27 E 33	S 35 E 42	N 60 E 17	N 60 W 4	S 37 E 42	S 77 E 30	S 29 E 7

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

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Meter	**24** 3^{48} a	**24** 7^{45} a	**24** 11^{48} a	**24** 3^{45} p	**24** 7^{44} p	**24** 11^{38} p	**3** 3^{45} a	**3** 7^{45} a	**3** 11^{48} a	**3** 3^{40} p	**3** 7^{38} p	**3** 11^{48} p
$2^1/_2$	N 39 E 46	N 51 E 19	N 18 W 85	N 27 W 76	S 63 E 25	N 19 W 64	0	N 19 W 64	N 27 E 48	N 32 E 48	N 13 W 67	N 32 E 48
5	N 53 E 39	N 32 E 19	N 14 W 65	N 07 W 65	S 73 E 29	N 31 W 75	0	N 35 W 66	N 45 E 52	N 10 E 49	N 18 W 75	N 07 E 58
10	N 51 E 44	N 72 E 23	N 23 W 81	N 11 W 64	S 58 E 26	N 25 W 64	0	N 37 W 66	N 54 E 50	N 34 E 46	N 24 W 73	N 02 W 50
15	N 49 E 43	N 69 E 22	N 30 W 78	N 15 W 41	S 53 E 29	N 41 W 50	N 50 E 34	N 36 W 69	N 50 E 55	N 40 E 47	N 35 W 65	N 07 E 48
20	N 42 E 42	N 76 E 16	N 26 W 72	N 60 W 19	S 41 E 24	N 24 W 51	N 54 E 33	N 35 W 69	N 81 E 43	N 40 E 46	N 36 W 59	N 07 E 49
25	N 46 E 41	S 74 E 16	N 23 W 55	N 78 W 43	S 47 E 18	N 27 W 59	N 45 E 47	N 34 W 66	S 88 E 35	N 37 E 41	N 41 W 61	N 12 W 53
$27^1/_2$	N 49 E 44	S 76 E 21	N 23 W 54	N 70 W 42	S 46 E 18	N 20 W 53	N 40 E 46	N 33 W 67	S 64 E 38	N 47 E 37	N 35 W 57	N 27 W 50
30	N 40 E 43	S 80 E 21	N 30 W 53	N 85 W 43	S 48 E 20	N 20 W 47	N 48 E 45	N 30 W 68	N 71 E 31	N 36 E 32	N 33 W 52	N 13 W 47
	25 3^{48} a	**25** 7^{48} a	**25** 11^{45} a	**25** 3^{48} p	**25** 7^{45} p	**25** 11^{40} p	**4** 3^{48} a	**4** 7^{45} a	**4** 11^{44} a	**4** 3^{45} p	**4** 7^{44} p	**4** 11^{38} p
$2^1/_2$	N 25 W 58	S 64 E 29	N 26 W 59	N 31 W 46	S 85 E 40	N 29 E 50	N 03 W 64	N 34 W 48	N 27 E 67	0	N 25 W 41	N 07 E 48
5	N 27 W 58	S 59 E 18	N 28 W 58	N 34 W 32	S 74 E 39	N 19 W 44	N 05 W 66	N 33 W 66	N 02 E 75	0	N 41 W 52	N 13 W 32
10	N 20 W 46	S 48 E 24	N 27 W 67	N 38 W 31	S 63 E 38	N 27 W 38	N 21 W 73	N 29 W 64	N 20 W 74	N 10 W 34	N 32 W 44	S 8
15	N 31 W 55	S 44 E 36	N 38 W 65	N 56 W 37	S 63 E 37	N 26 W 40	N 25 W 71	N 33 W 62	N 03 W 74	N 16 W 32	N 35 W 47	S 52 E 23
20	N 34 W 23	N 88 E 31	N 40 W 63	N 56 W 30	S 62 E 33	N 15 W 38	N 11 W 63	N 38 W 69	N 16 E 66	N 20 W 32	N 36 W 48	S 07 W 6
25	W 27	S 78 E 25	N 26 W 50	N 48 W 33	S 78 E 28	N 18 W 34	N 08 W 57	N 46 W 67	N 11 W 57	N 31 W 46	N 50 W 56	S 07 W 6
$27^1/_2$	S 30 E 25	S 89 E 18	N 23 W 49	N 25 W 29	S 76 E 28	N 18 W 36	N 05 W 57	N 47 W 66	N 15 E 56	N 44 W 46	N 44 W 58	N 49 W 28
30	S 30 E 24	S 45 E 12	N 14 W 36	N 32 W 28	S 86 E 27	N 17 W 37	N 03 E 57	N 28 W 56	N 02 E 50	N 36 W 45	N 47 W 52	N 53 W 24
	26 3^{39} a	**26** 7^{48} a	**26** 11^{48} a	**26** 3^{48} p	**26** 7^{48} p	**26** 11^{45} p	**5** 3^{48} a	**5** 7^{48} a	**5** 11^{45} a	**5** 3^{48} p	**5** 7^{45} p	**5** 11^{40} p
$2^1/_2$	N 13 W 46	N 82 E 33	N 03 W 33	N 23 W 48	S 48 E 46	S 87 W 11	0	N 40 W 53	N 41 W 48	S 10 E 25	N 43 W 11	S 38 E 25
5	N 18 W 39	S 88 E 32	N 25 W 39	N 21 W 47	S 50 E 45	S 87 W 11	0	N 40 W 70	N 44 W 47	S 17 W 33	N 44 W 11	S 08 E 43
10	N 20 W 38	S 80 E 38	N 27 W 45	N 21 W 57	S 53 E 40	S 87 W 19	0	N 49 W 67	N 35 W 46	S 03 W 38	N 41 W 19	S 40 E 38
15	N 16 W 37	S 77 E 37	N 18 W 44	N 56 W 61	S 48 E 36	N 64 W 23	S 52 W 34	N 40 W 62	N 58 W 45	S 01 E 35	N 38 W 23	S 18 E 31
20	N 26 W 38	S 66 E 35	N 25 W 49	N 44 W 59	S 28 E 28	N 66 W 22	S 44 W 33	N 35 W 59	N 83 W 56	S 46 W 21	N 60 W 28	S 17 E 34
25	N 36 W 42	S 64 E 37	N 20 W 51	N 35 W 57	S 42 E 27	N 39 W 28	S 48 W 23	N 43 W 55	S 79 W 25	S 25 W 20	N 44 W 27	S 02 E 30
$27^1/_2$	N 30 W 41	S 55 E 38	N 05 W 44	N 45 W 60	S 42 E 27	N 38 W 27	N 47 E 8	N 31 W 47	S 86 W 24	S 14 W 20	N 58 W 21	S 05 E 30
30	N 30 W 40	S 66 E 37	N 10 W 43	N 28 W 49	S 61 E 34	N 43 W 27	N 47 E 8	N 20 W 47	S 84 W 23	S 02 E 20	N 81 W 16	S 05 E 30
	27 3^{40} a	**27** 7^{39} a	**27** 11^{48} a	**27** 3^{48} p	**27** 7^{48} p	**27** 11^{48} p	**6** 3^{45} a	**6** 7^{48} a	**6** 11^{48} a	**6** 3^{45} p	**6** 7^{48} p	**6** 11^{45} p
$2^1/_2$	N 58 W 48	S 35 E 33	0	N 50 W 59	S 41 E 25	S 48 E 40	S 15 E 33	N 15 W 25	N 29 E 33	S 13 E 40	S 47 W 14	N 15 E 11
5	S 36 W 57	S 32 E 39	N 38 W 25	N 41 W 69	S 38 E 33	S 50 E 46	S 38 E 50	N 08 E 25	N 32 E 39	S 13 E 46	S 24 E 11	N 20 E 11
10	S 36 W 62	S 38 E 38	N 71 W 25	N 43 W 67	S 21 E 32	S 48 E 44	S 36 E 51	N 30 E 28	N 21 E 38	S 21 E 45	S 02 W 19	N 20 W 19
15	S 53 W 64	S 40 E 40	N 70 W 14	N 40 W 64	S 43 E 38	S 43 E 47	S 35 E 49	N 10 E 31	N 11 E 37	S 19 E 44	S 54 E 19	N 19 W 18
20	S 56 W 61	S 28 E 43	S 85 W 24	N 42 W 55	S 41 E 37	S 47 E 45	S 28 E 47	N 12 E 38	N 13 W 34	S 19 E 48	S 51 E 20	N 30 W 17
25	S 62 W 58	S 29 E 42	S 63 W 24	N 45 W 49	S 38 E 43	S 48 E 40	S 26 E 45	N 17 E 37	N 50 W 30	S 23 E 46	N 21 W 20	N 07 W 9
$27^1/_2$	S 52 W 51	S 30 E 34	N 30 W 25	N 42 W 42	S 30 E 43	S 43 E 39	S 30 E 45	N 15 E 33	N 55 W 30	S 27 E 46	N 37 E 12	N 05 W 9
30	S 75 W 53	S 32 E 36	S 81 W 20	N 47 E 42	S 26 E 48	S 46 E 36	S 50 E 44	N 12 E 29	N 68 W 31	S 29 E 45	N 30 E 15	N 10 E 9
	28 3^{45} a	**28** 7^{44} a	**28** 11^{48} a	**28** 3^{44} p	**28** 7^{43} p	**28** 11^{48} p	**7** 3^{44} a	**7** 7^{38} a	**7** 11^{48} a	**7** 3^{48} p	**7** 7^{48} p	**7** 11^{48} p
$2^1/_2$	N 75 W 19	S 48 E 33	S 43 E 46	N 55 W 53	S 38 E 33	S 01 E 33	S 47 E 39	N 13 W 19	N 48 W 48	S 28 E 25	S 55 W 19	N 36 W 25
5	N 84 W 19	S 41 E 48	S 38 E 39	N 41 W 58	S 28 E 30	S 10 W 32	S 40 E 36	N 12 W 19	N 25 W 47	S 65 E 32	S 19 W 20	N 25 W 29
10	N 46 W 23	S 37 E 47	S 19 E 38	N 48 W 56	S 33 E 23	S 05 W 31	S 51 E 36	N 16 E 23	N 36 W 57	S 75 E 36	S 16 E 18	N 32 W 28
15	N 42 W 28	S 34 E 49	S 34 E 37	N 43 W 62	S 36 E 13	S 38 E 23	S 36 E 35	N 13 E 32	N 30 W 56	S 57 E 30	S 59 E 10	N 50 W 23
20	N 38 W 27	S 33 E 46	S 40 E 29	N 19 W 64	N 34 W 6	S 37 E 22	S 55 E 34	N 04 E 33	N 33 W 54	S 43 E 30	S 34 E 18	N 66 W 15
25	N 39 W 26	S 32 E 46	S 46 E 29	N 12 W 60	N 37 W 11	S 33 E 21	S 35 E 33	N 14 W 34	N 10 W 29	S 47 E 34	S 52 E 14	N 49 W 15
$27^1/_2$	N 54 W 32	S 36 E 45	S 42 E 30	N 10 W 47	N 40 W 18	S 53 E 24	S 47 E 33	N 17 W 33	N 26 W 28	S 50 E 27	E 11	N 49 W 12
30	N 49 W 31	S 41 E 42	S 32 E 30	N 08 W 42	N 42 W 18	E 13	S 45 E 33	N 38 W 31	N 44 W 22	S 38 E 23	S 63 E 10	N 60 W 12
	29 3^{48} a	**29** 7^{45} a	**29** 11^{42} a	**29** 3^{45} p	**29** 7^{44} p	**29** 11^{38} p	**8** 3^{45} a	**8** 7^{42} a	**8** 11^{45} a	**8** 3^{48} p	**8** 7^{39} p	**8** 11^{48} p
$2^1/_2$	N 45 W 43	N 57 E 30	S 43 E 53	N 38 W 46	N 62 E 20	S 48 E 40	S 53 E 46	S 60 E 14	N 25 W 46	N 47 E 33	S 73 E 25	N 02 E 48
5	N 43 W 45	N 45 E 34	S 38 E 52	N 36 W 45	N 57 E 19	S 45 E 46	S 43 E 45	S 54 E 13	N 23 W 52	N 55 E 39	S 37 E 25	N 52
10	N 49 W 51	N 16 E 33	S 33 E 47	N 42 W 50	N 46 E 23	S 48 E 37	S 40 E 37	S 51 E 17	N 20 W 50	N 64 E 31	S 55 E 32	N 44 W 52
15	N 48 W 49	N 48 W 29	S 26 E 42	N 32 W 49	N 26 E 22	S 46 E 36	S 28 E 30	S 52 E 16	N 30 W 49	N 47 E 30	S 05 E 23	N 33 W 50
20	N 38 W 45	N 67 W 29	S 36 E 35	N 20 W 47	N 34 E 19	S 48 E 35	S 34 E 29	S 43 E 16	N 30 W 40	S 55 W 9	S 47 E 22	N 15 E 45
25	N 39 W 39	N 70 W 28	S 52 E 25	N 21 W 45	N 37 E 16	S 47 E 37	S 38 E 28	S 54 E 18	N 25 W 39	S 88 W 19	S 80 E 22	N 19 W 54
$27^1/_2$	N 42 W 36	S 77 W 34	S 24 E 19	N 21 W 45	N 12 W 19	S 49 E 34	S 39 E 19	S 43 E 16	N 29 W 38	S 55 W 29	S 07 E 22	N 24 W 53
30	N 46 W 30	S 75 W 34	S 01 E 16	N 40 W 37	N 44 W 20	S 54 E 41	S 30 E 19	S 60 E 15	N 37 W 38	S 38 W 28	S 38 E 25	N 21 W 56
	30 3^{48} a	**30** 7^{48} a	**30** 11^{45} a	**30** 3^{38} p	**30** 7^{45} p	**30** 11^{44} p	**9** 3^{48} a	**9** 7^{45} a	**9** 11^{48} a	**9** 3^{50} p	**9** 7^{44} p	**9** 11^{40} p
$2^1/_2$	N 62 E 33	N 03 W 40	S 43 E 48	N 48 W 31	N 60 W 30	S 38 E 59	N 43 W 33	N 19 E 16	N 22 E 48	N 77 E 25	S 45 E 25	N 81 W 23
5	N 29 E 32	N 08 W 46	S 41 E 47	N 54 W 33	N 62 W 29	S 25 E 63	N 23 W 46	N 22 E 25	N 34 W 58	N 42 E 25	S 18 E 31	N 55 W 36
10	N 03 E 33	N 18 W 26	S 41 E 46	N 33 W 40	N 30 W 33	S 33 E 67	N 15 W 44	N 19 E 24	N 29 W 65	N 19 E 28	S 42 E 35	N 03 E 53
15	N 14 W 33	N 36 W 30	S 49 E 56	N 27 W 43	N 27 W 33	S 30 E 67	N 20 E 44	N 14 E 31	N 31 W 63	N 05 E 38	S 29 E 30	N 46 W 57
20	N 18 W 30	N 47 W 30	S 44 E 29	N 32 W 36	N 13 W 36	S 06 W 59	N 10 E 35	N 23 W 38	N 16 W 58	N 13 W 35	S 20 E 31	N 67 W 56
25	N 26 W 30	N 53 W 30	S 51 E 24	N 27 W 35	N 09 W 34	S 23 E 54	N 09 E 31	N 23 W 37	N 22 W 57	N 17 W 34	S 16 E 35	N 32 W 50
$27^1/_2$	N 10 W 29	N 60 W 30	S 53 E 42	N 20 W 29	N 44 W 29	S 35 E 47	N 10 W 31	N 26 W 37	N 45 W 59	N 08 W 36	S 03 W 31	N 51 W 49
30	N 05 W 31	N 64 W 26	S 33 E 53	N 20 W 24	N 42 W 29	S 46 E 43	N 03 W 26	N 27 E 21	N 32 W 58	N 16 W 36	S 22 W 25	N 74 W 45
	1 3^{38} a	**1** 7^{48} a	**1** 11^{48} a	**1** 3^{45} p	**1** 7^{48} p	**1** 11^{45} p	**10** 3^{48} a	**10** 7^{48} a	**10** 11^{45} a	**10** 3^{48} p	**10** 7^{45} p	**10** 11^{40} p
$2^1/_2$	N 33 W 40	0	S 33 E 67	0	N 23 W 41	S 23 E 67	S 37 W 36	S 73 E 29	N 23 W 40	N 23 W 70	S 15 E 40	N 78 W 25
5	N 30 W 39	0	S 25 E 66	0	N 18 W 48	S 37 E 75	N 73 W 36	S 73 E 43	N 20 W 46	N 28 W 58	S 13 E 39	N 53 W 31
10	N 14 W 45	0	S 25 E 73	0	N 46 W 42	S 34 E 73	N 83 W 47	S 24 E 38	N 19 W 44	N 36 W 45	S 10 W 38	N 53 W 32
15	N 05 W 44	N 78 W 48	S 32 E 70	0	N 05 W 46	S 39 E 70	S 75 W 42	S 25 E 41	N 17 W 43	N 65 W 45	S 07 W 37	N 48 W 33
20	N 01 W 46	N 33 W 58	S 43 E 68	N 50 W 34	N 10 W 49	S 54 E 58	S 75 W 45	S 23 E 43	N 30 W 35	N 80 W 37	S 18 E 43	N 38 W 27
25	N 02 W 31	N 60 W 57	S 41 E 57	N 47 W 33	N 18 W 48	S 47 E 57	S 76 W 42	S 14 E 43	N 30 W 34	N 65 W 43	S 31 E 43	N 34 W 23
$27^1/_2$	N 05 W 26	N 40 W 57	S 28 E 56	N 78 W 32	N 22 W 47	S 45 E 57	S 67 W 44	S 33 E 34	N 26 W 41	N 30 W 43	S 43 E 35	N 01 W 14
30	N 04 W 25	N 21 W 58	S 39 E 56	N 58 W 46	S 31 W 45	S 20 E 45	S 76 W 43	S 67 E 27	N 36 W 40	N 34 W 29	S 39 E 34	N 34 E 11
	2 3^{40} a	**2** 7^{38} a	**2** 11^{48} a	**2** 3^{48} p	**2** 7^{48} p	**2** 11^{48} p	**11** 3^{39} a	**11** 7^{48} a	**11** 11^{45} a	**11** 3^{45} p	**11** 7^{48} p	**11** 11^{40} p
$2^1/_2$	N 63 W 53	N 23 W 67	S 38 E 48	N 43 W 44	N 75 W 48	S 75 E 48	N 68 W 36	S 25 E 48	S 22 W 19	N 55 W 40	S 45 E 46	S 57 E 19
5	N 48 W 47	N 28 W 57	S 38 E 47	N 32 W 40	N 63 W 47	S 73 E 54	N 62 W 36	S 15 E 58	S 07 W 19	N 24 W 32	S 34 E 52	S 59 E 19
10	N 61 W 58	N 28 W 61	S 38 E 57	S 57 E 45	N 50 W 46	S 68 E 53	N 53 W 41	S 26 E 57	S 74 W 18	N 21 W 31	S 42 E 50	S 54 E 18
15	N 66 W 60	N 22 W 63	S 38 E 55	S 62 E 44	N 75 W 47	S 65 E 55	N 50 W 39	S 16 E 55	S 86 W 10	N 43 W 31	S 42 E 46	S 50 E 9
20	N 56 W 55	N 38 W 52	S 53 E 56	S 36 E 45	N 56 W 38	S 61 E 53	N 54 W 38	S 12 E 49	N 80 W 10	N 42 W 37	S 48 E 44	N 50 W 4
25	N 79 W 49	N 54 W 50	S 37 E 52	S 60 W 39	N 38 W 37	S 65 E 47	N 70 W 37	S 26 E 47	N 80 W 18	N 27 W 36	S 37 E 45	N 21 W 13
$27^1/_2$	N 66 W 38	N 58 W 43	S 30 E 49	S 55 W 38	N 36 W 43	S 68 E 51	W 45	S 30 E 52	N 73 W 17	N 03 E 36	S 28 E 45	N 17 W 20
30	N 42 W 50	N 52 W 47	S 40 E 48	S 65 W 41	N 33 W 43	S 66 E 56	S 75 W 45	S 32 E 51	N 15 E 20	N 03 E 29	S 27 E 42	N 10 W 20

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

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Meter	12 3³⁹ a	12 7³⁵ a	12 11⁴⁵ a	12 3⁴⁸ p	12 7⁴⁵ p	12 11⁴⁸ p	21 3³⁹ a	21 7⁴⁴ a	21 11⁴⁸ a	21 3⁴⁵ p	21 7⁴⁸ p	21 11⁴⁵ p
2½	N 32 E 29	S 71 E 33	N 69 E 24	N 28 W 40	N 84 E 48	S 38 E 33	S 31 E 53	N 10 W 25	N 16 W 33	S 36 E 36	N 52 E 25	N 39 W 19
5	N 05 W 42	N 89 E 32	N 73 E 23	N 36 W 53	N 77 E 47	S 19 W 15	S 35 E 52	N 07 W 30	N 03 E 33	S 33 E 36	N 58 E 33	N 38 W 19
10	N 22 W 40	S 67 E 31	N 71 E 28	N 32 W 56	N 87 E 46	N 06 W 29	S 33 E 50	N 10 W 35	N 06 W 31	S 33 E 58	N 56 E 27	N 37 W 10
15	N 18 W 46	S 80 E 35	N 76 E 27	N 40 W 67	N 88 E 33	N 44 W 25	S 40 E 51	N 13 W 38	N 20 W 27	S 10 E 57	S 21 E 29	S 42 E 3
20	N 24 W 52	N 88 E 37	S 48 E 33	N 26 W 64	E 32	N 17 W 24	S 41 E 49	N 10 W 42	N 25 W 26	S 16 E 66	S 21 E 25	S 88 W 18
25	N 17 W 57	S 65 E 31	N 21 W 35	N 25 W 56	N 79 E 16	N 27	S 40 E 43	N 10 E 44	N 20 W 30	S 17 E 64	W 6	S 68 W 18
27½	N 22 W 47	S 35 E 30	N 26 W 35	N 23 W 55	S 84 W 12	N 02 W 31	S 37 E 42	N 11 W 45	N 38 W 37	S 27 E 73	W 6	N 62 W 22
30	N 25 W 35	S 60 E 20	N 15 W 34	N 29 W 54	S 84 W 12	N 06 E 30	S 25 E 37	N 20 W 43	N 30 W 37	S 26 E 72	S 25 W 14	N 55 W 22
	13 3⁴⁵ a	**13 7⁴⁰ a**	**13 11³⁸ a**	**13 3⁴⁸p**	**13 7³⁸ p**	**13 11⁴⁸ p**	**22 3³⁸ a**	**22 7³⁸ a**	**22 11⁴⁴ a**	**22 3³⁸ p**	**22 7⁴⁴ p**	**22 11⁴⁸ p**
2½	N 33 W 48	N 88 W 20	0	N 33 W 36	S 21 W 21	S 23 E 48	S 33 E 46	0	N 21 W 30	S 26 E 48	S 30 E 30	N 31 W 25
5	N 33 W 47	S 77 W 33	S 47 W 16	N 23 W 36	S 02 E 21	S 17 E 47	S 33 E 42	0	N 13 W 33	S 25 E 69	S 33 E 29	N 27 W 29
10	N 14 W 57	S 42 W 39	S 47 W 21	N 28 W 47	S 09 W 24	S 02 E 51	S 25 E 44	N 05 E 16	N 10 W 34	S 28 E 67	S 39 E 26	N 20 W 36
15	N 09 W 67	S 08 E 36	S 05 E 24	N 30 W 57	S 09 W 29	S 24 E 45	S 27 E 43	N 34 W 19	N 11 E 26	S 30 E 58	S 42 E 22	N 08 W 35
20	N 10 W 64	S 29 E 34	S 47 W 24	N 56	S 08 E 23	S 21 E 32	S 24 E 37	N 12 W 18	N 26	S 31 E 56	S 56 E 15	N 28 W 25
25	N 16 W 62	S 31 E 38	N 38 E 18	N 46 W 54	S 18 E 22	S 05 E 31	S 29 E 34	N 14 W 17	N 06 W 22	S 28 E 55	S 63 E 15	N 19 W 21
27½	N 01 W 51	S 39 E 36	N 71 E 26	N 30 W 48	S 26 E 31	S 39 E 28	S 28 E 33	N 15 W 17	N 12 E 20	S 31 E 50	S 86 E 10	N 21 W 21
30	N 02 W 50	S 35 E 42	N 66 E 26	N 41 W 44	S 19 E 30	S 51 E 32	S 26 E 33	N 35 W 20	N 20 E 17	S 28 E 49	N 72 E 6	S 22 E 9
	14 3⁴⁸ a	**14 7⁴⁵ a**	**14 11⁴⁰ a**	**14 3⁴⁹ p**	**14 7⁴⁴ p**	**14 11⁴⁰ p**	**23 3⁴⁵ a**	**23 7⁴³ a**	**23 11⁴⁸ a**	**23 3⁴⁸ p**	**23 7³⁶ p**	**23 11³⁹ p**
2½	N 53 W 25	S 34 E 46	S 21 E 60	N 61 W 16	S 42 W 29	S 03 E 29	S 73 E 40	N 17 E 25	N 10 W 36	E 25	S 20 E 27	N 40 W 30
5	N 48 W 33	S 33 E 45	S 30 E 75	N 31 W 21	N 84 W 33	S 23 E 29	S 76 E 39	N 38 E 36	N 08 W 48	N 87 E 25	S 77 E 26	N 43 W 36
10	N 64 W 31	S 21 E 44	S 29 E 74	N 13 W 24	N 82 W 36	S 02 E 32	E 31	N 28 E 38	N 16 W 75	N 89 E 30	S 40 E 28	N 32 W 33
15	N 26 W 23	S 30 E 43	S 19 E 74	N 07 W 32	N 80 W 39	S 19 W 31	S 66 E 30	N 22 E 30	N 16 W 72	S 85 E 32	S 50 E 27	N 33 W 30
20	S 65 W 27	S 25 E 34	S 21 E 74	N 26 W 36	N 83 W 34	S 23 E 38	S 64 E 30	N 16 E 37	N 28 W 78	N 69 E 35	S 44 E 24	N 40 W 34
25	S 56 W 31	S 20 E 34	S 29 E 66	N 29 W 37	N 83 W 29	S 17 E 37	S 64 E 29	N 02 E 33	N 38 W 79	N 07 E 30	S 30 E 24	N 46 W 41
27½	N 77 W 21	S 17 E 40	S 21 E 58	N 45 W 37	N 56 W 25	S 07 E 26	S 20 E 30	N 04 W 36	N 36 W 77	N 17 W 31	S 62 E 23	N 54 W 45
30	N 60 W 21	S 23 E 46	S 29 E 59	N 56 W 39	N 83 W 20	S 26 E 26	S 21 E 21	N 02 W 35	N 29 W 71	N 20 W 30	S 03 E 20	N 56 W 48
	15 3⁴⁸ a	**15 7⁴⁸ a**	**15 11⁴⁵ a**	**15 3⁴⁸ p**	**15 7⁴⁵ p**	**15 11³⁸ p**	**24 3⁴⁸ a**	**24 7⁴⁵ a**	**24 11⁴⁸ a**	**24 3³⁸ p**	**24 7³⁸ p**	**24 11⁴⁰ p**
2½	N 65 W 29	S 13 E 21	S 25 E 59	N 23 W 19	N 15 E 19	S 30 E 42	N 17 E 18	S 39 E 25	N 33 W 46	S 48 E 19	S 33 E 40	S 05 E 19
5	N 76 W 33	S 19 E 25	S 26 E 58	N 23 E 19	N 11 E 19	S 27 E 46	N 34 E 18	S 37 E 25	N 34 W 46	N 39 E 20	S 28 E 46	S 13 E 19
10	S 87 W 31	S 08 E 19	S 19 E 67	N 23 E 15	N 28 E 18	S 20 E 42	N 49 E 15	S 43 E 24	N 26 W 58	N 29 E 18	S 20 E 44	S 10 E 23
15	N 16 W 35	S 36 W 20	S 10 E 65	N 08 W 15	N 26 E 9	S 37 E 44	N 50 E 14	S 35 E 14	N 29 W 63	N 50 W 19	S 24 E 49	S 10 E 22
20	N 01 E 42	S 25 W 23	S 07 E 62	N 10 W 14	S 22 W 4	S 36 E 38	N 71 E 14	N 48 W 4	N 26 W 69	S 82 W 19	S 21 E 42	S 55 W 23
25	N 16 W 37	S 20 W 27	S 22 E 60	N 28 W 11	S 22 W 4	S 38 E 36	N 86 E 14	N 48 W 4	N 27 W 58	N 81 W 21	S 16 E 40	S 55 W 22
27½	N 10 W 32	S 19 W 26	S 26 E 49	N 53 W 15	S 22 W 4	S 46 E 33	N 86 E 17	N 16 E 17	N 30 W 46	N 48 W 26	S 25 E 32	S 20 E 21
30	N 24 W 29	S 14 W 30	S 30 E 48	N 07 W 14	S 22 W 4	S 35 E 27	N 83 E 14	N 01 W 17	N 26 W 36	N 42 W 26	S 18 E 35	S 69 W 22
	16 3⁴⁴ a	**16 7⁴⁸ a**	**16 11⁴⁸ a**	**16 3⁴⁵ p**	**16 7⁴⁸ p**	**16 11⁴⁵ p**	**25 3³⁹ a**	**25 7⁴⁸ a**	**25 11⁴⁵ a**	**25 3³⁸ p**	**25 7⁴⁵ p**	**25 11³⁸ p**
2½	N 37 E 25	N 28 W 25	S 61 E 29	N 28 W 40	N 18 W 70	N 69 E 36	N 36 W 31	S 25 E 59	N 50 W 25	N 33 W 11	S 34 E 58	S 83 E 34
5	N 18 W 36	N 33 W 40	S 59 E 33	N 25 W 39	N 23 W 79	N 70 E 36	N 23 W 36	S 33 E 69	N 55 W 25	N 33 W 19	S 33 E 58	N 83 W 3
10	N 16 W 38	N 39 W 45	S 50 E 38	N 22 W 38	N 21 W 80	N 75 E 35	N 27 W 38	S 19 E 77	N 53 W 24	N 33 W 15	S 16 E 57	N 83 W 3
15	N 30 W 44	N 22 W 44	S 45 E 41	N 02 E 37	N 25 W 69	N 75 E 34	N 37 W 32	S 23 E 74	N 20 W 23	N 54 W 15	S 23 E 64	N 83 W 3
20	N 23 W 43	N 15 W 36	S 30 E 37	N 30 W 36	N 30 W 71	N 30 E 34	N 19 W 21	S 39 E 67	N 19 W 31	S 82 W 18	S 25 E 71	N 83 W 3
25	N 30 W 42	N 28 W 34	S 45 E 43	N 07 W 43	N 39 W 57	N 21 W 36	N 09 W 21	S 37 E 65	N 65 W 22	S 75 W 17	S 25 E 68	N 83 W 3
27½	N 30 W 44	N 28 W 30	S 48 E 34	N 12 W 42	N 43 W 57	N 36 W 22	N 13 W 15	S 17 E 57	S 83 W 23	S 70 W 17	S 34 E 58	N 39 E 19
30	N 26 W 42	N 41 W 26	S 49 E 31	N 12 W 41	N 37 W 56	N 31 W 21	S 28 E 9	S 25 E 56	N 45 W 30	S 62 W 17	S 32 E 58	N 83 W 3
	17 3³⁹ a	**17 7³⁸ a**	**17 11⁴⁵ a**	**17 3⁴⁸ p**	**17 7³⁹ p**	**17 11⁴⁸ p**	**26 3³⁸ a**	**26 7⁴⁴ a**	**26 11⁴⁸ a**	**26 3⁴⁵ p**	**26 7⁴⁸ p**	**26 11⁴⁵ p**
2½	N 60 W 64	N 63 W 67	N 63 W 20	N 43 W 33	N 46 W 31	S 51 E 46	N 30 E 34	S 72 E 48	N 13 E 58	N 25 W 67	N 40 E 58	N 19 E 48
5	N 32 W 68	N 58 W 78	N 42 W 20	N 55 W 46	N 36 W 36	S 46 E 45	N 14 W 40	S 77 E 47	N 10 E 58	N 26 W 66	N 44 E 58	N 21 E 47
10	N 42 W 65	N 41 W 81	N 75 E 20	N 47 W 38	N 37 W 38	S 42 E 48	N 08 E 39	S 80 E 53	N 10 E 49	N 21 W 64	N 48 E 54	N 03 E 46
15	N 30 W 65	N 50 W 78	S 81 E 30	N 46 W 30	N 33 W 35	S 30 E 46	N 41 W 39	S 76 E 58	N 06 E 48	N 25 W 71	N 39 E 47	N 02 W 28
20	N 33 W 65	N 38 W 75	S 65 E 24	N 27 W 20	N 35 W 32	S 33 E 50	N 15 W 36	S 84 E 63	N 18 W 43	N 16 W 69	N 18 E 47	N 12 W 27
25	W 64	N 39 W 64	S 56 E 25	N 40 W 29	N 36 W 27	S 32 E 50	N 76 W 46	S 82 E 49	N 10 W 42	N 20 W 66	N 06 E 40	N 07 W 44
27½	S 89 W 69	N 44 W 48	S 28 E 27	N 36 W 29	N 46 W 25	S 30 E 45	N 30 W 44	S 77 E 38	N 21 W 43	N 48 W 58	N 08 W 41	N 10 E 43
30	S 86 W 64	N 54 W 34	S 28 E 27	N 33 W 28	N 65 W 20	S 32 E 44	N 40 W 25	S 70 E 37	N 34 W 42	N 50 W 57	N 16 W 34	N 21 E 43
	18 3⁴⁵ a	**18 7⁴³ a**	**18 11⁴⁵ a**	**18 3⁵⁰ p**	**18 7³⁸ p**	**18 11³⁸ p**	**27 3³⁹ a**	**27 7⁴² a**	**27 11⁴⁴ a**	**27 3⁴⁸ p**	**27 7³⁹ p**	**27 11⁴⁸ p**
2½	S 15 E 11	N 20 W 25	S 36 E 37	S 01 W 14	N 16 W 37	S 66 E 19	N 08 W 58	N 08 W 76	N 12 E 48	N 38 W 67	N 23 W 57	N 30 W 67
5	S 16 E 11	N 26 W 37	S 38 E 46	S 04 W 16	N 35 W 36	S 70 E 19	N 16 W 66	N 08 W 79	N 08 W 58	N 38 W 75	N 15 W 61	N 38 W 75
10	S 21 E 11	N 27 W 33	S 47 E 48	N 04 E 2	N 44 W 37	S 73 E 21	N 23 W 64	N 10 W 80	N 11 W 57	N 16 W 73	N 19 W 64	N 35 W 73
15	S 21 W 11	N 26 W 22	S 49 E 46	S 05 E 12	N 39 W 32	S 56 E 25	N 27 W 72	N 14 W 77	N 20 W 64	N 14 W 70	N 11 W 63	N 28 W 75
20	N 01 W 2	N 20 W 23	S 52 E 45	S 10 E 18	N 38 W 26	S 40 E 25	N 14 W 60	N 15 E 75	N 18 W 62	N 22 W 73	N 10 W 66	N 17 W 73
25	N 01 W 2	N 20 W 21	S 34 E 46	S 29 E 17	N 26 W 27	S 42 E 30	N 24 W 58	N 07 W 68	N 18 W 69	N 24 W 70	N 11 W 58	N 13 W 65
27½	S 83 E 11	N 25 W 15	S 35 E 45	S 31 E 17	N 18 W 23	S 46 E 30	N 25 W 47	N 06 E 62	N 17 W 68	N 25 W 67	N 20 W 65	N 07 W 56
30	S 84 E 11	N 30 W 10	S 33 E 49	N 71 E 19	N 19	S 29 E 33	N 15 W 32	N 03 E 61	N 20 W 58	N 30 W 63	N 16 W 63	N 04 E 56
	19 3⁴⁸ a	**19 7⁴⁵ a**	**19 11⁴⁴ a**	**19 3³⁸ p**	**19 7⁴³ p**	**19 11³⁸ p**	**28 3⁴⁵ a**	**28 7⁴³ a**	**28 11³⁸ a**	**28 3⁴⁹ p**	**28 7³⁸ p**	**28 11³⁸ p**
2½	S 88 E 14	N 11 W 46	0	S 25 E 40	N 18 W 25	S 10 W 20	N 33 W 67	N 15 W 67	0	N 31 W 48	N 38 W 58	N 85 E 48
5	N 80 E 13	N 12 W 45	0	S 04 E 39	N 48 W 25	S 75 W 11	N 32 W 66	N 23 W 66	0	N 33 W 47	N 30 W 66	E 47
10	N 77 E 12	N 14 W 44	S 27 E 9	S 21 E 38	N 54 W 28	S 55 E 11	N 30 W 64	N 21 W 68	0	N 30 W 55	N 04 W 56	S 84 E 53
15	N 76 E 12	N 11 W 49	S 29 E 16	S 20 E 48	N 62 W 27	S 39 E 21	N 31 W 62	N 12 W 65	N 23 W 34	N 37 W 59	N 20 W 47	E 57
20	S 87 E 6	N 14 W 48	S 32 E 18	S 09 E 46	N 61 W 31	S 36 E 33	N 36 W 69	N 01 E 60	N 30 W 33	N 35 W 56	N 19 W 22	S 87 E 51
25	N 04 W 11	N 16 W 46	S 40 E 18	S 02 W 30	N 36 W 21	S 30 E 33	N 52 W 67	N 07 E 59	N 19 W 32	N 36 W 47	N 30 W 22	N 79 E 40
27½	N 13	N 21 W 45	S 12 E 21	S 22 E 31	N 06 E 12	S 41 E 37	N 45 W 65	N 12 E 55	N 02 E 32	N 26 W 40	N 83 W 25	N 50 E 29
30	N 03 E 17	N 21 W 44	S 06 W 25	S 29 E 30	N 35 E 14	S 35 E 36	N 45 W 56	N 09 E 47	N 13 W 31	N 26 W 32	N 79 W 24	N 43 W 18
	20 3³⁸ a	**20 7⁴⁸ a**	**20 11³⁸ a**	**20 3⁴⁸ p**	**20 7⁴⁵ p**	**20 11³⁸ p**	**29 3⁴⁸ a**	**29 7⁴⁵ a**	**29 11⁴⁴ a**	**29 3⁴⁵ p**	**29 7³⁸ p**	**29 11³⁹ p**
2½	S 28 E 36	N 18 W 43	N 25 W 19	S 25 E 64	0	N 33 E 16	N 39 W 67	N 55 W 67	S 20 W 44	N 48 W 48	N 73 W 58	S 23 W 76
5	S 34 E 28	N 17 W 46	N 20 W 19	S 26 E 58	0	N 38 E 19	N 40 W 75	N 57 W 66	S 24 W 48	N 45 W 47	N 76 W 58	S 16 E 84
10	S 33 E 31	N 18 W 44	N 13 W 18	S 25 E 56	0	S 84 E 14	N 33 W 73	N 46 W 73	S 23 W 53	N 66 W 57	S 73 W 46	S 29 E 80
15	S 25 E 41	N 15 W 43	N 27 E 10	S 26 E 55	0	S 50 E 7	N 35 W 64	N 33 W 71	S 18 E 62	N 64 W 56	S 32 W 46	S 33 E 81
20	S 20 E 37	N 15 W 39	S 13 E 4	S 36 E 49	N 73 E 11	S 43 E 19	N 29 W 58	N 37 W 68	S 24 E 64	N 60 W 24	S 07 W 30	S 36 E 78
25	S 24 E 33	N 11 W 36	S 84 W 14	S 39 E 41	N 72 E 11	S 45 E 22	N 26 W 57	N 19 W 47	S 23 E 61	S 56 E 24	S 16 W 45	S 29 E 75
27½	S 25 E 36	N 11 W 36	S 87 W 15	S 36 E 40	N 07 E 11	S 35 E 20	N 10 W 53	N 20 W 46	S 04 E 57	S 56 E 24	S 10 E 51	S 29 E 74
30	S 30 E 35	N 11 W 36	S 64 W 16	S 38 E 33	N 06 W 11	S 26 E 18	N 13 W 53	N 20 W 29	S 07 E 54	S 56 E 23	S 20 E 66	S 38 E 74

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

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Meter	30 3^{39} a	30 7^{48} a	30 11^{38} a	30 3^{48} p	30 7^{45} p	30 11^{39} p	8 3^{48} a	8 7^{44} a	8 11^{44} a	8 3^{38} p	8 7^{44} p	8 11^{38} p
2½	S 73 W 44	S 15 W 48	S 21 E 96	S 02 W 67	S 27 E 76	S 26 E 124	N 62 E 34	S 76 E 34	N 09 W 48	0	S 48 E 34	N 01 W 48
5	S 80 W 55	S 03 E 52	S 14 E 99	S 05 E 63	S 23 E 74	S 33 E 126	S 62 W 3	S 62 E 50	N 05 W 48	N 13 W 34	S 50 E 33	N 17 W 58
10	S 73 W 62	S 30 E 57	S 16 E 97	S 50 E 62	S 01 W 64	S 37 E 108	S 62 W 3	S 44 E 53	N 02 W 56	N 03 W 40	N 80 E 25	N 17 W 57
15	S 39 W 45	S 35 E 60	S 14 E 108	S 30 E 63	S 20 W 62	S 25 E 85	S 01 E 34	S 65 E 45	N 21 W 64	N 30 W 39	S 80 E 32	N 02 E 44
20	S 26 W 30	S 29 E 58	S 38 E 86	S 23 E 61	S 11 W 60	S 16 E 102	S 16 E 33	S 52 E 50	N 17 W 68	N 07 W 46	N 89 E 31	N 06 E 47
25	N 62 E 25	S 44 E 54	S 27 E 101	S 29 E 59	S 04 E 48	S 22 E 46	S 15 E 32	S 75 E 44	N 14 W 67	N 08 W 45	N 82 E 29	N 14 W 46
27½	N 62 E 24	S 36 E 50	S 13 E 91	S 33 E 55	S 07 E 47	S 05 W 46	S 28 E 27	S 42 E 34	N 08 W 59	N 13 W 44	E 28	N 37 W 46
30	S 30 E 21	S 30 E 49	S 49 E 99	S 37 E 54	S 01 E 46	S 03 E 42	S 26 E 30	N 83 E 30	N 16 W 53	N 22 W 30	S 83 E 28	N 29 W 52
	31 3^{38} a	**31** 7^{39} a	**31** 11^{52} a	**31** 3^{45} p	**31** 7^{48} p	**31** 11^{45} p	**9** 3^{44} a	**9** 7^{48} a	**9** 11^{40} a	**9** 3^{44} p	**9** 7^{39} p	**9** 11^{38} p
2½	S 05 E 67	S 10 E 44	S 33 E 67	S 23 E 34	S 55 E 34	S 52 E 58	N 56 W 55	S 03 E 48	0	0	S 24 E 71	S 13 E 48
5	S 18 E 57	S 07 E 48	S 35 E 84	S 20 E 32	S 62 E 33	S 52 E 58	N 43 W 56	S 19 E 47	S 34 W 30	S 57 W 34	S 22 E 75	S 11 E 33
10	S 20 E 56	S 11 E 54	S 33 E 80	S 18 E 28	S 54 E 28	S 54 E 56	N 48 W 49	S 20 E 48	S 01 W 37	S 88 W 40	S 26 E 76	S 15 E 33
15	S 35 E 55	S 11 E 52	S 32 E 80	S 13 E 31	S 50 E 27	S 52 E 55	N 66 W 44	S 24 E 47	S 17 W 47	S 79 W 31	S 24 E 70	S 20 E 39
20	S 20 E 62	S 14 E 56	S 30 E 79	S 16 E 38	S 46 E 26	S 39 E 53	N 57 W 32	S 18 E 44	S 20 W 40	S 82 W 30	S 26 E 67	S 25 E 30
25	S 32 E 60	S 17 E 53	S 27 E 76	S 22 E 37	S 50 E 26	S 39 E 57	N 50 E 14	S 18 E 43	S 30 W 31	S 55 W 45	S 22 E 69	S 22 E 28
27½	S 27 E 54	S 18 E 49	S 40 E 70	S 50 E 29	S 43 E 20	S 39 E 56	S 50 E 25	S 11 E 39	S 23 W 30	S 72 W 27	S 33 E 66	S 30 E 17
30	S 46 E 35	S 21 E 39	S 42 E 69	S 45 E 28	S 39 E 20	S 38 E 59	S 50 E 25	S 12 E 35	S 47 W 21	S 61 W 27	S 36 E 63	S 24 E 17
	1 3^{38} a	**1** 7^{38} a	**1** 11^{44} a	**1** 3^{48} p	**1** 7^{39} p	**1** 11^{48} p	**10** 3^{39} a	**10** 7^{44} a	**10** 11^{48} a	**10** 3^{38} p	**10** 7^{48} p	**10** 11^{40} p
2½	N 57 E 26	N 07 W 34	S 46 E 44	S 28 E 34	N 22 W 41	S 40 E 58	0	S 30 E 57	0	0	S 33 E 44	S 13 E 48
5	N 57 E 20	N 16 W 43	S 48 E 48	S 22 E 33	N 18 W 43	S 38 E 58	S 40 W 34	S 34 E 59	S 02 W 34	S 03 E 26	S 37 E 67	S 26 E 47
10	S 57 W 3	N 29 W 47	S 50 E 46	S 17 E 32	N 16 W 47	S 60 E 55	S 30 E 33	S 28 E 61	S 15 E 33	N 03 W 3	S 39 E 68	S 22 E 42
15	S 57 W 3	N 26 W 52	S 45 E 40	S 18 E 32	N 16 W 46	S 55 E 48	S 70 W 25	S 25 E 68	S 10 W 28	N 03 W 3	S 42 E 64	S 26 E 37
20	S 57 W 3	N 20 W 55	S 69 E 22	S 16 E 30	N 17 W 39	S 49 E 42	N 25 E 9	S 22 E 72	S 02 W 27	N 03 W 3	S 32 E 67	S 29 E 39
25	S 57 W 3	N 30 W 54	N 45 W 21	N 23 W 14	N 24 W 30	S 52 E 34	N 25 E 9	S 26 E 65	S 05 W 21	N 87 W 34	S 42 E 65	S 26 E 44
27½	N 21 E 25	N 30 W 48	N 45 W 21	N 23 W 14	N 26 W 42	S 46 E 32	N 25 E 9	S 26 E 65	S 16 W 21	N 76 W 41	S 29 E 63	S 38 E 38
30	S 49 W 4	N 32 W 47	N 45 W 21	N 23 W 14	N 30 W 49	S 26 E 24	S 53 W 22	S 22 E 57	N 05 E 13	N 79 W 33	S 28 E 60	S 38 E 29
	2 3^{45} a	**2** 7^{38} a	**2** 11^{38} a	**2** 3^{49} p	**2** 7^{38} p	**2** 11^{44} p	**11** 3^{44} a	**11** 7^{38} a	**11** 11^{44} a	**11** 3^{48} p	**11** 7^{44} p	**11** 11^{48} p
2½	0	N 28 W 58	0	0	0	S 30 E 38	N 23 W 44	S 44 E 48	S 14 W 55	N 48 W 34	S 41 E 44	S 23 E 48
5	0	N 28 W 58	S 41 E 48	0	0	S 33 E 47	N 28 W 33	S 66 E 47	S 20 E 54	N 43 W 25	S 44 E 48	S 31 E 47
10	0	N 33 W 47	S 41 E 39	0	N 07 W 26	S 31 E 46	N 43 W 40	S 45 E 57	S 18 E 48	N 03 W 24	S 40 E 47	S 43 E 46
15	0	N 28 W 53	S 41 E 46	S 77 E 34	N 14 W 25	S 14 E 54	N 08 W 31	S 44 E 60	S 46 E 45	N 11 W 32	S 40 E 47	S 33 E 47
20	0	N 23 W 58	S 49 E 45	S 78 E 25	N 20 E 32	S 13 E 60	N 17 E 30	S 44 E 71	S 53 E 44	N 10 W 31	S 36 E 53	S 52 E 44
25	S 53 E 34	N 28 W 61	S 52 W 33	N 75 W 6	N 28 E 31	S 15 E 67	N 37 E 21	S 43 E 73	S 51 E 36	N 14 W 30	S 36 E 63	S 50 E 42
27½	S 49 E 33	N 24 W 60	S 24 W 29	S 83 E 25	N 12 E 21	S 15 E 61	S 24 E 17	S 14 E 63	N 60 E 13	N 01 E 34	S 34 E 66	S 39 E 44
30	S 41 E 32	N 27 W 59	S 59 W 33	S 82 E 39	N 18 E 21	S 10 E 59	S 24 E 17	S 34 E 61	N 26 W 26	N 16 W 32	S 26 E 61	S 30 E 41
	3 3^{48} a	**3** 7^{44} a	**3** 11^{43} a	**3** 3^{48} p	**3** 7^{44} p	**3** 11^{38} p	**12** 3^{40} a	**12** 7^{38} a	**12** 11^{48} a	**12** 3^{49} p	**12** 7^{38} p	**12** 11^{44} p
2½	S 31 E 48	N 38 W 34	N 43 W 34	S 30 E 55	0	0	N 67 W 34	S 23 E 44	S 38 E 58	N 70 W 41	S 26 E 34	S 25 E 57
5	S 29 E 48	N 21 W 40	N 45 W 33	S 23 E 58	0	0	N 57 W 40	S 12 E 58	S 35 E 70	N 66 W 48	S 36 E 48	S 30 E 61
10	S 10 E 51	N 25 W 56	S 45 E 6	S 26 E 56	N 38 W 34	0	N 55 W 39	S 10 E 50	S 35 E 64	N 80 W 38	S 37 E 39	S 30 E 70
15	S 11 E 49	N 22 W 49	S 45 E 6	S 16 E 48	N 64 W 40	S 53 E 44	N 58 W 40	S 18 E 56	S 27 E 62	N 86 W 19	S 30 E 30	S 30 E 67
20	S 16 E 48	N 28 W 58	S 45 E 6	S 15 E 47	N 66 W 31	S 56 E 43	N 56 W 39	S 25 E 43	S 48 E 69	S 74 E 17	S 30 E 36	S 39 E 60
25	S 31 E 42	N 28 W 58	S 45 E 6	S 39 E 46	N 47 W 30	E 31	N 56 W 43	S 18 E 42	S 34 E 58	S 74 E 17	S 25 E 51	S 36 E 55
27½	S 04 E 22	N 40 W 59	S 38 E 28	S 70 E 42	N 22 W 30	S 04 E 31	N 60 W 36	S 20 E 41	S 33 E 57	S 74 E 17	S 09 E 50	S 45 E 52
30	S 04 E 22	N 44 W 54	S 38 E 36	S 37 E 39	N 50 W 32	S 43 E 37	N 61 W 32	S 22 E 33	S 33 E 57	N 28	S 11 E 43	S 40 E 41
	4 3^{44} a	**4** 7^{48} a	**4** 11^{45} a	**4** 3^{44} p	**4** 7^{44} p	**4** 11^{44} p	**13** 3^{48} a	**13** 7^{44} a	**13** 11^{39} a	**13** 3^{38} p	**13** 7^{44} p	**13** 11^{38} p
2½	S 41 E 48	N 23 W 48	N 32 E 30	S 53 E 34	0	N 08 W 58	N 68 W 48	0	S 29 E 64	S 74 W 26	0	S 27 W 58
5	S 46 E 47	N 17 W 54	N 05 W 38	S 49 E 33	N 28 W 38	N 13 W 58	N 45 W 47	0	S 26 E 66	N 85 W 34	N 07 E 34	S 79 W 58
10	S 50 E 60	N 14 W 55	N 20 W 47	S 51 E 32	N 28 W 47	N 07 W 45	N 40 W 42	0	S 24 E 71	N 55 W 33	N 07 E 24	S 60 W 65
15	S 53 E 64	N 12 W 55	N 07 W 48	S 54 E 39	N 26 W 57	N 11 W 44	N 14 E 32	S 53 E 34	S 26 E 69	S 87 E 8	S 07 W 6	S 76 W 68
20	S 60 E 48	N 14 W 54	N 15 W 45	S 50 E 46	N 28 W 51	N 14 W 43	N 09 E 30	S 05 E 33	S 31 E 59	S 69 E 28	S 20 E 36	S 81 W 70
25	S 76 E 28	N 12 W 52	N 31 W 50	S 63 E 28	N 28 W 52	S 16 E 50	N 05 E 28	S 24	S 31 E 58	S 30 E 26	S 10 E 44	S 82 W 58
27½	S 68 E 31	N 24 W 53	N 38 W 48	S 27 W 31	N 22 W 53	S 19 E 43	N 11 W 22	N 32 W 8	S 34 E 54	N 60 E 5	S 21 E 44	S 79 W 58
30	N 34 W 13	N 22 W 52	N 38 W 49	S 21 W 30	N 16 W 56	S 17 E 43	N 14 E 15	S 45 W 24	S 32 E 50	N 60 E 5	S 10 E 33	N 87 W 58
	5 3^{39} a	**5** 7^{40} a	**5** 11^{48} a	**5** 3^{44} p	**5** 7^{48} p		**14** 3^{44} a	**14** 7^{48} a	**14** 11^{48} a	**14** 3^{48} p	**14** 7^{40} p	**14** 11^{38} p
2½	0	N 25 W 62	N 03 W 48	S 78 E 34	N 45 E 48		N 36 W 44	N 35 W 44	S 48 E 58	S 39 W 21	N 30 W 20	S 38 E 53
5	0	N 29 W 66	N 12 W 47	S 58 E 40	N 35 E 47		N 37 W 47	N 38 W 43	S 58 E 63	S 39 W 21	N 22 W 20	S 44 E 50
10	N 63 E 34	N 26 W 64	N 02 W 60	S 56 E 42	N 22 E 48		N 39 W 46	N 35 W 45	S 46 E 61	N 39 E 1	S 22 E 1	S 43 E 59
15	N 74 E 33	N 22 W 67	N 05 W 59	S 60 E 46	N 21 E 56		N 36 W 40	N 45 W 33	S 35 E 63	N 39 E 1	S 22 E 1	S 33 E 57
20	E 42	N 15 W 73	N 23 W 63	S 50 E 39	N 21 E 43		N 58 W 14	N 47 W 28	S 33 E 57	N 39 E 1	S 22 E 1	S 37 E 59
25	N 56 E 37	N 18 W 75	N 25 W 61	S 64 E 30	N 20 W 43		N 65 W 15	N 62 W 23	S 36 E 54	N 39 E 1	S 22 E 1	S 43 E 50
27½	N 24 E 30	N 15 W 70	N 19 W 60	S 74 E 25	N 21 W 40		S 38 E 19	N 72 W 16	S 36 E 48	N 39 E 1	S 22 E 1	S 44 E 50
30	N 46 E 40	N 04 W 67	N 37 W 63	N 57 W 23	N 18 W 42		S 38 E 19	S 38 E 18	S 39 E 43	N 39 E 1	S 22 E 1	S 51 E 44
	6 3^{39} a	**6** 7^{39} a	**6** 11^{45} a	**6** 3^{48} p	**6** 7^{44} p	**6** 11^{48} p	**15** 3^{38} a	**15** 7^{44} a	**15** 11^{48} a	**15** 3^{42} p	**15** 7^{48} p	**15** 11^{39} p
2½	0	N 03 W 34	N 36 W 57	0	N 43 W 48	N 58 W 48	N 04 W 17	N 28 W 36	S 40 E 39	0	N 27 E 39	S 49 E 46
5	0	N 01 W 52	N 33 W 61	0	N 40 W 47	N 34 W 47	N 13 W 23	N 32 W 41	S 50 E 44	0	N 16 W 39	S 46 E 49
10	N 87 E 34	N 13 W 50	N 30 W 64	N 49 E 34	N 45 W 53	N 57 W 57	N 15 W 28	N 34 W 43	S 38 E 49	0	N 24 W 40	S 60 E 48
15	E 33	N 15 W 59	N 34 W 59	N 27 E 33	N 46 W 45	N 65 W 59	N 10 W 27	N 34 W 43	S 39 E 47	0	N 43 W 38	S 62 E 49
20	N 74 E 31	N 10 W 63	N 29 W 61	S 38 W 8	N 44 W 52	N 41 W 57	N 07 E 29	N 29 W 40	S 28 E 46	0	N 34 W 38	S 56 E 48
25	N 76 E 41	N 63 W 63	N 20 W 64	S 38 W 8	N 42 W 57	N 54 W 61	N 09 E 31	N 31 W 36	S 32 E 45	0	N 28 W 38	S 53 E 48
27½	N 70 E 28	N 24 W 60	N 11 W 58	S 38 W 8	N 60 W 61	N 54 W 60	N 11 E 31	N 20 W 30	S 40 E 43	0	N 33 W 38	S 50 E 48
30	N 80 E 28	N 37 W 59	N 15 W 54	S 38 W 8	N 56 W 65	N 21 W 55	N 13 E 28	N 14 W 26	S 42 E 42	N 19 E 14	N 28 W 38	S 40 E 47
	7 3^{40} a	**7** 7^{38} a	**7** 11^{48} a	**7** 3^{44} p	**7** 7^{38} p	**7** 11^{38} p	**16** 3^{38} a	**16** 7^{38} a	**16** 11^{44} a	**16** 3^{48} p	**16** 7^{38} p	**16** 11^{48} p
2½	0	N 18 W 48	N 61 W 34	S 05 E 26	0	N 23 W 30	N 43 W 23	N 36 W 60	S 03 E 23	0	N 48 W 46	S 81 E 23
5	N 71 W 34	N 13 W 58	N 39 W 48	S 04 E 26	S 35 E 34	N 16 W 37	N 31 W 38	N 35 W 63	S 21 E 35	N 28 W 23	N 38 W 51	S 76 E 28
10	N 70 W 29	N 18 W 50	N 22 W 53	N 04 W 4	S 33 E 33	N 20 W 47	N 38 W 16	N 38 W 76	S 29 E 41	S 28 E 1	N 36 W 44	S 76 E 33
15	N 62 W 36	N 09 W 39	N 28 W 56	N 04 W 4	S 18 E 40	N 24 W 46	N 40 W 22	N 29 W 74	S 36 E 43	S 28 E 1	N 33 W 45	S 60 E 32
20	N 57 W 46	N 29 W 38	N 20 W 54	N 04 W 4	S 15 E 46	N 26 W 49	N 36 W 22	N 34 W 68	S 37 E 40	N 35 W 23	N 36 W 47	S 52 E 30
25	N 51 W 52	N 52 W 44	N 55 W 43	S 14 E 25	S 10 E 40	N 40 W 58	N 07 W 32	N 44 W 51	S 54 E 43	N 44 W 22	N 39 W 41	S 44 E 30
27½	N 46 W 44	N 56 W 43	N 44 W 40	S 26 E 28	S 07 W 27	N 34 W 56	N 12 W 38	N 52 W 44	S 44 E 40	N 33 W 19	N 34 W 36	S 56 E 31
30	N 15 W 31	N 62 W 36	N 49 W 33	S 12 E 32	S 02 E 14	N 34 W 56	N 13 W 40	N 52 W 43	S 40 E 41	N 29 W 16	N 40 W 27	S 55 E 31

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	17 3⁴⁰ a	17 7³⁸ a	17 11⁴⁸ a	17 3⁴⁸ p	17 7³⁸ p	17 11⁴⁸ p	26 3³⁸ a	26 7⁴⁸ a	26 11³⁹ a	26 3⁴⁴ p	26 7⁴⁰ p	26 11⁴⁹ p
2½	S 52 W 14	N 23 W 55	0	S 08 E 49	N 58 W 28	S 38 E 29	N 13 W 69	N 79 E 39	N 69 E 39	N 35 W 44	S 53 E 36	S 23 E 38
5	0	N 30 W 60	0	S 16 E 39	N 79 W 30	S 37 E 29	N 16 W 77	N 82 E 51	N 18 W 46	N 39 W 46	S 48 E 38	S 41 E 39
10	0	N 23 W 59	0	S 15 E 38	N 45 W 27	S 33 E 25	N 16 W 75	N 26 E 60	N 10 W 46	N 40 W 48	S 82 E 32	S 71 E 44
15	N 73 W 17	N 33 W 60	0	S 15 E 23	N 24 W 27	S 26 E 25	N 27 W 73	N 08 E 48	N 45	N 43 W 48	S 47 E 34	S 66 E 43
20	S 73 E 1	N 28 W 55	0	S 26 E 19	N 52 W 21	S 27 E 30	N 23 W 61	N 03 E 54	N 14 E 44	N 39 W 49	S 66 E 31	S 64 E 38
25	S 73 E 1	N 27 W 54	S 17 W 23	S 01 E 8	N 30 W 15	S 26 E 27	N 15 W 60	N 01 E 52	N 17 E 38	N 36 W 49	S 60 E 24	S 30 E 37
27½	N 42 W 17	N 23 W 53	S 13 E 30	S 28 W 9	N 15 E 16	S 19 E 29	N 22 W 50	N 23 W 34	N 23 E 36	N 36 W 48	S 29 E 31	S 54 E 37
30	N 26 W 20	N 30 W 41	S 07 E 33	S 27 W 9	N 03 E 16	S 17 E 23	N 21 W 49	W 17	N 27 E 29	N 37 W 47	S 20 E 37	S 28 E 42
	18 3⁴⁸ a	**18 7⁴⁴ a**	**18 11⁴⁵ a**	**18 3³⁸ p**	**18 7⁴⁸ p**	**18 11⁴⁰ p**	**27 3³⁸ a**	**27 7³⁸ a**	**27 11⁴⁵ a**	**27 3⁴⁴ p**	**27 7⁴⁸ p**	**27 11³⁹ p**
2½	S 88 E 33	N 31 W 46	N 46 E 39	S 51 E 51	N 25 W 23	0	N 23 W 51	N 23 W 51	S 33 E 60	N 73 W 32	N 76 W 47	S 22 E 44
5	N 83 E 36	N 33 W 47	N 36 E 22	S 40 E 50	N 26 W 23	0	N 28 W 69	N 19 W 50	S 36 E 50	N 58 W 39	N 32 W 50	S 20 E 46
10	S 80 E 38	N 32 W 48	S 45 W 2	S 28 E 53	N 38 W 25	0	N 34 W 59	N 12 W 59	S 34 E 49	N 53 W 45	N 22 W 52	S 23 E 46
15	N 78 E 38	N 34 W 46	S 45 W 2	S 18 E 48	N 31 W 24	S 10 E 20	N 22 W 66	N 45 W 54	S 31 E 48	N 53 W 49	N 18 W 52	S 29 E 48
20	N 80 E 36	N 36 W 47	S 83 W 24	S 16 E 39	N 45 W 22	S 23 E 28	N 22 W 64	N 28 W 56	S 16 E 46	N 62 W 50	N 17 W 46	S 36 E 47
25	N 73 E 30	N 33 W 46	S 71 W 24	S 34 E 28	N 44 W 24	S 19 E 37	N 38 W 62	N 32 W 42	S 21 E 45	N 56 W 46	N 34 W 42	S 41 E 45
27½	N 62 E 26	N 32 W 45	S 72 W 30	S 12 E 25	N 36 W 22	S 16 E 38	N 46 W 66	N 36 W 31	S 04 E 33	N 48 W 41	S 89 W 38	S 49 E 42
30	N 40 E 19	N 34 W 42	S 64 W 30	S 27 E 24	N 33 W 22	S 12 E 41	N 33 W 70	N 43 W 25	S 04 E 33	N 40 W 43	S 53 W 21	S 55 E 39
	19 3⁴⁸ a	**19 7⁴⁸ a**	**19 11³⁹ a**	**19 3⁴⁵ p**	**19 7⁴⁴ p**	**19 11³⁸ p**	**28 3⁴⁵ a**	**28 7³⁸ a**	**28 11⁴⁴ a**	**28 3⁴⁵ p**		**28 11⁴¹ p**
2½	S 15 E 46	N 19 W 33	N 35 W 33	S 34 E 60	0	0	N 16 W 26	N 34 W 51	S 46 E 57	N 11 W 33		S 75 E 45
5	S 33 E 47	N 19 W 33	N 37 W 30	S 34 E 50	0	0	N 18 W 39	N 34 W 50	S 50 E 58	N 36 W 33		S 75 E 45
10	S 33 E 48	N 31 W 36	N 39 W 32	S 34 E 49	N 39 W 17	0	N 17 W 38	N 36 W 53	S 47 E 64	N 36 W 32		S 85 E 48
15	S 34 E 48	N 34 W 38	N 36 W 29	S 36 E 58	N 45 W 17	0	N 24 W 37	N 27 W 52	S 32 E 64	N 29 W 32		S 87 E 49
20	S 33 E 48	N 42 W 38	S 41 E 8	S 16 E 57	N 46 W 19	S 09 E 17	N 28 W 49	N 32 W 46	S 46 E 66	N 29 W 31		S 79 E 49
25	S 35 E 46	N 39 W 36	S 46 W 17	S 19 E 44	N 41 W 24	S 08 W 27	N 38 W 48	N 34 W 38	S 53 E 64	N 18 W 36		S 80 E 49
27½	S 34 E 44	N 28 W 36	S 40 W 28	S 18 E 44	N 40 W 24	S 27	N 36 W 43	N 45 W 33	S 57 E 52	N 08 E 38		S 79 E 48
30	S 42 E 41	N 27 W 31	S 26 W 33	S 16 E 43	N 43 W 26	S 10 E 27	N 13 W 34	N 37 W 32	S 52 E 46	N 17 E 38		S 88 E 47
	20 3³⁸ a	**20 7⁴⁸ a**	**20 11⁴⁸ a**	**20 3⁵⁰ p**	**20 7⁴⁸ p**	**20 11⁴⁵ p**	**29 3³⁹ a**	**29 7⁴⁵ a**	**29 11³⁸ a**	**29 3⁴⁸ p**	**29 7³⁸ p**	**29 11⁴⁹ p**
2½	S 38 E 60	0	N 31 W 39	S 26 E 44	S 39 W 23	N 40 W 23	N 33 W 38	N 33 W 39	S 01 E 23	N 18 W 33	N 22 W 39	S 76 E 50
5	S 28 E 67	N 47 W 17	N 48 W 39	S 24 E 44	0	N 62 W 23	N 25 W 38	N 33 W 60	S 05 W 23	N 31 W 44	N 36 W 51	S 74 E 41
10	S 34 E 67	S 47 E 1	N 14 W 32	S 16 E 46	0	N 62 W 23	N 19 W 44	N 35 W 68	S 41 E 36	N 33 W 49	N 36 W 49	S 70 E 43
15	S 40 E 65	N 16 E 17	N 26 W 31	S 20 E 43	0	S 62 E 6	N 23 W 45	N 32 W 66	S 30 E 36	N 43 W 49	N 30 W 54	S 73 E 45
20	S 39 E 63	N 11 E 16	N 30 W 28	S 23 E 47	0	S 62 E 6	N 19 W 47	N 45 W 64	S 61 E 38	N 40 W 49	N 38 W 57	S 61 E 46
25	S 33 E 52	N 27 E 16	N 32 W 19	S 16 E 47	S 34 E 14	S 62 E 6	N 15 W 49	N 43 W 71	S 46 E 36	N 27 W 42	N 36 W 49	S 68 E 46
27½	S 33 E 51	N 31 E 16	N 30 W 19	S 20 E 42	S 33 E 14	S 62 E 6	N 02 W 50	N 44 W 52	S 58 E 38	N 23 W 36	N 51 W 44	S 54 E 42
30	S 40 E 51	N 31 E 19	N 53 W 19	S 23 E 38	0	S 62 E 6	N 50	N 45 W 51	S 50 E 38	N 21 W 36	N 70 W 26	S 47 E 40
	21 3³⁸ a	**21 7³⁸ a**	**21 11⁴⁵ a**	**21 3⁴⁹ p**	**21 7⁴⁸ p**	**21 11³⁹ p**	**30 3⁴³ a**	**30 7³⁹ a**	**30 11⁴⁸ a**	**30 3⁴⁴ p**	**30 7⁴⁵ p**	**30 11³⁸ p**
2½	S 21 E 50	S 83 E 17	N 25 W 36	S 33 E 37	S 45 W 30	N 51 W 37	N 20 W 51	N 19 W 67	S 65 E 33	N 42 E 28	N 15 W 39	S 63 E 40
5	S 21 E 50	S 68 E 14	N 27 W 39	S 43 E 39	S 38 W 33	N 44 W 36	N 28 W 56	N 14 W 73	S 84 E 33	N 01 W 39	N 13 W 47	S 60 E 38
10	S 41 E 49	S 41 E 14	N 27 W 38	S 41 E 38	S 70 W 24	N 40 W 40	N 29 W 59	N 13 W 76	S 88 E 38	N 46 W 42	N 31 W 50	S 50 E 43
15	S 36 E 49	S 53 E 14	N 26 W 41	S 27 E 31	S 74 W 21	N 47 W 43	N 30 W 57	N 14 W 72	S 73 E 38	N 48 W 44	N 34 W 49	S 58 E 42
20	S 43 E 49	N 84 E 14	N 25 W 41	S 14 E 31	N 79 W 16	N 52 W 43	N 20 W 52	N 16 W 62	S 57 E 35	N 38 W 43	N 38 W 49	S 52 E 26
25	S 49 E 46	N 57 E 14	N 14 W 38	S 15 E 27	S 87 W 19	N 45 W 40	N 14 W 44	N 10 W 78	S 36 E 35	N 39 W 44	N 34 W 46	S 40 E 35
27½	S 49 E 46	N 44 E 14	N 09 W 37	S 02 E 27	N 49 E 6	N 38 W 38	N 05 W 42	N 12 W 72	S 10 E 35	N 44 W 44	N 42 W 46	S 33 E 29
30	S 38 E 39	N 34 E 17	N 08 W 37	S 22 W 25	N 49 E 6	N 27 W 35	N 04 W 31	N 20 W 71	S 06 W 37	N 37 W 46	N 40 W 41	S 34 E 19
	22 3⁴⁵ a	**22 7³⁸ a**	**22 11⁴⁴ a**	**22 3⁴⁸ p**	**22 7⁴³ p**	**22 11⁴⁸ p**	**31 3⁴⁸ a**	**31 7³⁹ a**	**31 11⁴⁴ a**	**31 3⁴⁵ p**	**31 7⁴⁴ p**	**31 11³⁹ p**
2½	S 32 W 33	S 06 E 23	N 21 W 41	0	S 31 E 28	N 18 W 33	N 32 E 39	N 05 W 58	N 25 W 33	N 33 W 33	N 17 W 64	N 69 E 26
5	S 22 W 33	S 20 E 23	N 23 W 33	0	S 32 E 23	N 18 W 33	N 36 E 42	N 31 W 74	N 30 W 33	N 03 E 33	N 23 W 66	N 80 E 26
10	S 14 W 32	N 20 W 8	N 21 W 48	0	S 42 E 30	N 17 W 35	N 14 W 46	N 34 W 85	N 30 E 37	N 09 E 39	N 20 W 75	N 41 W 27
15	S 17 W 21	N 20 W 8	N 24 W 49	N 38 W 17	S 23 E 22	N 26 W 35	N 24 W 47	N 34 W 78	N 56 E 32	N 24 W 38	N 23 W 79	N 27 W 39
20	N 26 E 6	S 34 W 17	N 24 W 42	N 44 W 17	S 12 E 22	N 20 W 35	N 10 W 48	N 33 W 75	N 30 W 40	N 29 W 43	N 30 W 79	N 18 E 38
25	S 45 E 22	S 15 W 27	N 30 W 40	N 67 W 16	S 34 E 15	N 20 W 36	N 26 W 49	N 36 W 76	N 27 W 41	N 25 W 47	N 37 W 77	N 26 E 33
27½	S 52 E 22	S 33 W 22	N 30 W 46	N 75 W 16	S 48 E 18	N 19 W 30	N 22 W 47	N 44 W 71	N 31 W 36	N 23 W 46	N 50 W 73	S 64 E 32
30	N 26 E 6	N 71 W 17	N 23 W 44	S 87 W 16	S 39 E 10	N 30 W 30	N 31 W 46	N 45 W 72	N 30 W 36	N 22 W 46	N 46 W 67	S 35 E 27
	23 3⁴⁴ a	**23 7⁴⁵ a**	**23 11⁴⁸ a**	**23 3⁴⁰ p**	**23 7³⁸ p**	**23 11⁴⁸ p**	**1 3³⁸ a**	**1 7⁴⁸ a**	**1 11⁴² a**	**1 3⁴⁴ p**	**1 7⁴⁰ p**	**1 11⁴⁵ p**
2½	N 17	S 20 E 39	N 31 W 33	N 10 W 33	S 57 E 32	N 16 E 23	N 22 E 39	N 13 W 76	N 27 E 44	N 33 W 33	N 08 W 65	N 22 W 33
5	N 02 W 17	S 40 E 39	N 43 W 22	N 12 W 33	S 47 E 44	N 45 W 23	N 17 E 39	N 25 W 74	N 20 E 62	N 20 W 38	N 26 W 84	N 21 W 33
10	S 02 E 1	S 40 E 38	N 43 W 24	N 39 W 24	S 44 E 43	N 60 W 16	N 14 E 50	N 27 W 72	N 12 E 59	N 24 W 40	N 26 W 84	N 23 W 38
15	S 02 E 1	S 40 E 37	N 43 W 24	S 88 W 16	S 41 E 49	N 46 W 19	N 10 W 37	N 29 W 73	N 06 E 55	N 16 W 43	N 26 W 79	N 05 W 38
20	S 02 E 1	S 26 E 36	N 34 W 21	N 66 W 32	S 36 E 43	N 44 W 19	N 13 W 36	N 39 W 76	N 17 W 55	N 22 W 46	N 36 W 73	N 06 W 38
25	S 87 E 17	S 25 E 36	N 30 W 9	N 69 W 31	S 52 E 39	N 22 W 24	N 10 W 41	N 37 W 73	N 31 W 56	N 18 W 46	N 39 W 72	N 39 W 45
27½	S 81 W 20	S 50 E 35	N 16 E 22	S 67 W 24	S 46 E 38	N 18 W 29	N 28 W 40	N 36 W 74	N 46 W 58	N 15 W 47	N 48 W 73	N 48 W 42
30	S 66 W 28	S 49 E 35	N 10 E 27	S 58 W 32	S 52 E 33	N 13 W 24	N 20 W 47	N 34 W 73	N 55 W 56	N 14 W 49	N 50 W 69	N 48 W 42
	24 3⁴⁸ a	**24 7³⁸ a**	**24 11⁴⁵ a**	**24 3³⁸ p**	**24 7⁴⁵ p**	**24 11³⁸ p**	**2 3³⁸ a**	**2 7³⁸ a**	**2 11⁴⁸ a**	**2 3⁵⁵ p**	**2 7⁴⁸ p**	**2 11³⁹ p**
2½	N 18 W 33	S 25 E 38	S 18 E 23	N 11 W 39	S 58 E 44	N 37 E 33	N 74 E 33	N 18 W 39	N 77 E 33	S 33 E 39	N 41 W 33	S 50 W 33
5	N 13 W 39	S 21 E 41	S 36 E 23	N 34 W 51	S 40 E 44	N 27 E 39	S 83 E 22	N 25 W 60	N 63 E 22	S 18 E 33	N 28 W 44	S 33 W 37
10	N 33 W 39	S 40 E 43	S 88 E 33	N 36 W 49	S 27 E 38	N 14 E 36	N 68 E 21	N 28 W 59	S 85 W 2	S 39 E 36	N 43 W 43	S 29 W 36
15	N 54 W 41	S 33 E 43	S 64 W 34	N 46 W 43	S 37 E 38	N 17 E 31	S 60 W 24	N 34 W 53	S 85 W 2	S 12 E 38	N 43 W 43	S 13 W 4
20	N 38 W 41	S 40 E 46	N 70 W 23	N 29 W 42	S 57 E 43	N 24 E 31	S 46 W 30	N 37 W 56	S 85 W 2	S 20 E 36	N 48 W 44	S 28 E 40
25	N 45 W 42	S 45 E 42	S 83 W 23	N 35 W 45	S 57 E 42	N 26 E 38	S 78 W 28	N 37 W 59	S 36 E 33	S 10 E 37	N 49 W 42	S 49 E 45
27½	N 47 W 40	S 38 E 39	N 65 E 23	N 34 W 50	S 59 E 42	N 27 E 42	N 50 W 33	N 41 W 54	S 37 W 34	S 40 E 38	N 41 W 43	S 48 E 46
30	N 58 W 37	S 17 E 35	N 39 E 23	N 60 W 65	S 57 E 42	N 32 E 42	N 38 W 23	N 41 W 53	S 49 W 33	S 45 E 38	N 41 W 42	S 38 E 46
	25 3⁴⁸ a	**25 7³⁹ a**	**25 11³⁹ a**	**25 3⁴⁵ p**	**25 7³⁸ p**	**25 11³⁹ p**	**3 3⁴⁵ p**	**3 7³⁸ a**	**3 11⁴⁵ a**	**3 3⁴⁸ p**	**3 7⁴⁴ p**	**3 11⁴³ p**
2½	N 46 W 60	N 77 E 39	S 79 E 33	N 07 E 51	N 19 W 44	N 09 E 36	S 65 E 44	N 17 E 39	N 12 E 33	S 78 E 33	N 36 W 38	N 46
5	N 54 W 69	N 77 E 36	S 75 E 33	N 19 W 60	N 16 W 46	N 12 E 39	S 67 E 44	N 43 W 39	N 13 E 33	S 75 E 22	N 29 W 38	N 52 W 47
10	N 31 W 76	N 83 E 32	S 25 E 27	N 23 W 68	N 29 W 43	N 13 W 46	S 79 E 47	N 33 W 56	N 39 W 39	S 54 E 32	N 25 W 44	N 16 W 41
15	N 17 W 74	N 61 E 29	N 34 W 18	N 38 W 75	N 11 W 43	N 07 W 49	S 84 E 47	N 26 W 58	N 65 W 38	S 47 E 32	N 32 W 46	N 13 W 42
20	N 32 W 71	N 20 E 29	N 22 W 34	N 34 W 72	N 14 W 41	N 20 W 49	S 80 E 49	N 25 W 57	N 65 W 38	S 25 E 32	N 34 W 48	N 20 W 34
25	N 35 W 66	N 26 W 36	N 14 W 33	N 38 W 70	N 10 W 36	N 28 W 49	S 89 E 49	N 22 W 55	N 47 W 43	S 04 E 21	N 29 W 49	N 38 W 39
27½	N 38 W 65	N 16 W 27	N 07 W 37	N 46 W 69	N 11 E 26	N 17 W 48	E 48	N 20 W 55	N 33 W 42	N 47 W 8	N 26 W 48	N 59 W 44
30	N 38 W 64	N 04 W 24	N 05 W 29	N 22 W 68	N 09 E 30	N 22 W 47	S 89 E 48	N 26 W 58	N 29 W 42	N 47 W 8	N 21 W 48	N 79 W 37

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	4 3^{38} a	4 7^{45} a	4 11^{38} a	4 3^{38} p	4 7^{39} p	4 11^{48} p	13 3^{48} a	13 7^{48} a	13 11^{38} a	13 3^{48} p	13 7^{39} p	13 11^{45} p
2½	S 24 E 33	N 17 W 33	N 15 E 23	S 36 E 44	N 54 E 17	N 28 E 23	N 16 W 36	N 43 W 48	S 53 E 34	N 02 E 30	N 03 E 37	S 47 E 48
5	S 26 E 33	N 20 W 44	N 41 W 28	S 34 E 44	0	N 29 E 39	N 12 W 39	N 39 W 47	S 66 E 52	N 03 W 33	N 28 W 43	S 48 E 48
10	S 23 E 38	N 20 W 47	N 53 W 33	S 35 E 46	0	N 05 W 32	N 36 W 43	N 31 W 65	S 59 E 53	S 02 W 36	N 50 W 46	S 32 E 46
15	S 34 E 32	N 24 W 49	N 36 W 32	S 43 E 47	N 42 W 17	N 07 W 32	N 28 W 47	N 53 W 50	S 57 E 51	S 09 E 36	N 52 W 44	S 27 E 28
20	S 43 E 31	N 16 W 49	N 44 W 29	S 46 E 49	N 30 W 23	N 42 E 31	N 38 W 46	N 57 W 49	S 42 E 54	N 26 W 36	N 37 W 47	S 22 E 28
25	S 19 E 25	N 16 W 49	N 46 W 25	S 50 E 49	N 14 E 23	N 06 E 28	N 40 W 46	N 53 W 40	S 21 E 57	N 50 W 32	N 52 W 44	S 04 W 45
27½	S 16 E 19	N 07 W 49	N 68 W 25	S 45 E 48	S 27 E 2	N 30 E 25	N 36 W 48	N 59 W 40	S 50 E 56	N 76 W 32	N 42 W 42	S 02 W 44
30	S 06 E 13	N 07 W 48	N 80 W 20	S 47 E 46	N 24 E 16	N 30 E 19	N 43 W 49	N 59 W 39	S 24 E 46	N 26 W 32	N 60 W 39	S 02 E 55
	5 3^{39} a	5 7^{38} a	5 11^{45} a	5 3^{48} p	5 7^{45} p	5 11^{39} p	14 3^{39} a	14 7^{48} a	14 11^{48} a	14 3^{44} p	14 7^{48} p	14 11^{39} p
2½	S 77 E 39	N 17 W 38	N 23 W 51	S 33 E 26	N 33 W 33	N 13 W 44	N 37 E 30	N 18 W 58	N 57 E 44	N 07 E 44	N 13 W 48	S 26 E 33
5	S 65 E 51	N 15 W 41	N 26 W 50	S 11 E 29	N 48 W 33	N 11 W 47	N 23 E 39	N 21 W 58	N 60 E 44	N 18 W 48	N 21 W 58	S 30 E 37
10	S 53 E 47	N 18 W 44	N 19 W 49	S 20 E 28	N 60 W 22	N 12 W 45	N 12 E 43	N 20 W 65	N 88 E 41	N 24 W 51	N 18 W 57	S 39 E 32
15	S 55 E 54	N 19 W 46	N 35 W 35	S 18 E 31	S 48 E 6	N 12 W 38	N 34 E 43	N 31 W 66	N 67 E 47	N 29 W 56	N 26 W 55	S 81 E 16
20	S 45 E 53	N 13 W 46	N 44 W 36	S 20 E 33	S 48 E 6	N 31 W 24	N 05 E 42	N 24 W 70	N 72 E 42	N 22 W 56	N 26 W 56	N 29 W 6
25	S 59 E 47	N 12 W 47	N 43 W 35	S 08 E 32	S 48 E 6	N 23 W 30	N 02 E 46	N 30 W 76	N 78 E 42	N 18 W 52	N 26 W 54	N 38 E 29
27½	S 59 E 44	N 14 W 47	N 53 W 29	S 10 E 32	S 52 E 24	N 55 W 31	N 20 W 47	N 36 W 72	N 83 E 40	N 22 W 57	N 45 W 51	N 04 E 34
30	S 52 E 38	N 04 W 47	N 54 W 29	S 10 E 29	S 52 E 24	N 59 W 31	N 30 W 49	N 33 W 64	N 81 E 39	N 26 W 57	N 48 W 52	N 02 W 38
	6 3^{48} a	6 7^{39} a	6 11^{44} a	6 3^{48} p	6 7^{39} p	6 11^{39} p	15 3^{45} a	15 7^{38} a	15 11^{48} a	15 3^{48} p	15 7^{48} p	15 11^{40} p
2½	S 33 E 26	N 33 E 30	N 29 W 57	N 21 W 30	S 17	N 02 W 28	N 18 W 39	N 25 W 71	N 22 E 44	N 07 E 33	N 38 W 76	N 37 E 48
5	S 41 E 26	N 33 E 28	N 27 W 60	N 40 W 33	S 13 W 20	N 32 W 39	N 15 W 47	N 23 W 75	N 17 E 47	N 09 E 33	N 24 W 79	N 08 W 59
10	S 27 E 33	N 33 E 22	N 34 W 64	N 64 W 29	N 13 E 1	N 30 W 47	N 17 W 50	N 25 W 73	N 14 E 49	N 09 W 43	N 18 W 80	N 18 W 57
15	S 26 E 30	N 05 E 22	N 28 W 62	S 49 E 5	N 13 E 1	N 36 W 41	N 04 W 49	N 29 W 78	N 05 W 49	N 30 W 43	N 21 W 77	N 06 W 38
20	S 28 E 30	N 10 E 15	N 25 W 55	S 49 E 5	N 77 W 17	N 51 W 41	N 02 W 49	N 38 W 66	N 22 W 48	N 13 W 47	N 32 W 71	N 30 E 25
25	S 36 E 29	S 26 W 5	N 13 W 50	S 49 E 5	N 73 W 28	N 34 W 30	N 49	N 37 W 73	N 29 W 48	N 24 W 46	N 36 W 67	S 66 E 36
27½	S 19 E 32	S 87 E 22	N 08 W 44	S 67 W 22	N 62 W 27	N 48 W 17	N 07 W 46	N 31 W 72	N 10 W 46	N 30 W 44	N 45 W 68	S 56 E 41
30	S 16 E 32	N 86 E 27	N 07 W 39	S 78 W 22	N 34 W 28	N 30 W 17	N 01 W 46	N 34 W 65	N 16 W 46	N 16 W 44	N 44 W 61	S 67 E 49
	7 3^{38} a	7 7^{48} a	7 11^{39} a	7 3^{44} p	7 7^{39} p	7 11^{45} p	16 3^{40} a	16 7^{45} a	16 11^{48} a	16 3^{44} p	16 7^{38} p	16 11^{48} p
2½	S 09 E 17	S 41 E 30	N 08 E 39	N 24 W 33	S 60 E 29	N 23 W 39	N 60 E 33	N 21 W 48	N 13 E 23	S 33 E 33	N 13 W 33	S 69 E 23
5	S 07 W 23	S 45 E 33	N 04 W 53	N 22 W 37	S 65 E 39	N 32 W 60	N 56 E 30	N 23 W 58	N 19 W 39	S 30 E 33	N 13 W 44	S 50 E 33
10	S 07 W 30	S 25 E 39	N 02 E 51	N 15 W 38	S 58 E 52	N 31 W 59	N 48 E 32	N 34 W 65	N 21 W 39	S 26 E 38	N 19 W 38	S 33 E 39
15	S 32 W 22	S 26 E 43	N 41	N 05 W 29	S 58 E 49	N 24 W 47	N 30 E 36	N 35 W 63	N 16 W 39	S 30 E 36	N 28 W 37	S 35 E 38
20	S 20 W 27	S 28 E 43	N 15 W 34	N 03 E 14	S 52 E 47	N 10 W 46	N 13 E 40	N 33 W 70	N 10 W 38	S 32 E 31	N 44 W 38	S 44 E 40
25	S 14 W 21	S 11 E 45	N 13 W 22	N 10 W 36	S 46 E 41	N 10 W 56	N 06 E 46	N 19 W 67	N 08 W 27	S 34 E 31	N 47 W 43	S 41 E 38
27½	S 22 E 16	S 06 W 43	N 37 W 19	N 20 W 40	S 36 E 33	N 09 W 55	N 10 W 40	N 20 W 66	N 12 E 27	S 35 E 24	N 44 W 40	S 43 E 39
30	S 04 E 15	S 06 E 40	N 45 W 6	N 20 W 37	S 13 E 28	N 30 W 43	N 12 W 37	N 14 W 57	N 70 E 21	S 35 E 24	N 50 W 30	S 54 E 46
	8 3^{39} a	8 7^{48} a	8 11^{48} a	8 3^{49} p	8 7^{48} p	8 11^{40} p	17 3^{39} a	17 7^{39} a	17 11^{45} a	17 3^{50} p	17 7^{45} p	17 11^{48} p
2½	N 03 E 46	N 62 E 25	N 23 W 39	N 18 W 51	N 72 E 39	N 25 E 33	S 53 E 74	N 13 W 42	N 33 W 23	S 43 E 33	N 33 W 33	N 10 W 36
5	N 22 W 49	S 68 E 28	N 13 W 44	N 30 W 56	S 83 E 39	N 13 E 33	S 40 E 65	N 20 W 44	N 33 W 33	S 48 E 44	N 31 W 39	N 03 W 30
10	N 23 W 49	S 87 E 39	N 07 W 41	N 40 W 64	S 80 E 40	N 04 W 38	S 36 E 60	N 19 W 46	N 18 W 32	S 47 E 41	N 33 W 43	N 26 W 44
15	N 45 W 49	N 84 E 43	N 13 E 41	N 34 W 62	S 62 E 40	N 10 W 41	S 34 E 62	N 16 W 43	N 35 W 22	S 40 E 38	N 49 W 43	N 33 W 47
20	N 47 W 48	N 85 E 41	N 16 E 38	N 46 W 64	S 56 E 41	N 15 W 43	S 28 E 60	N 30 W 46	N 09 W 22	S 25 E 31	N 48 W 47	N 33 W 43
25	N 35 W 48	N 84 E 37	N 02 E 37	N 40 W 59	S 56 E 40	N 15 W 47	S 32 E 62	N 39 W 47	N 28 W 32	S 30 E 30	N 30 W 49	N 46 W 38
27½	N 49 W 48	S 43 E 38	N 21 W 36	N 45 W 61	S 30 E 39	N 14 W 49	S 31 E 57	N 19 W 47	N 47 W 21	S 02 W 24	N 38 W 49	N 46 W 34
30	N 44 W 49	S 38 E 34	N 21 W 40	N 37 W 56	S 34 E 39	N 07 W 49	S 35 E 53	N 42	N 35 W 21	S 25 W 25	N 43 W 49	N 43 W 30
	9 3^{45} a	9 7^{38} a	9 11^{44} a	9 3^{45} p	9 7^{48} p	9 11^{45} p	18 3^{48} a	18 7^{40} a	18 11^{44} a	18 3^{40} p	18 7^{40} p	18 11^{38} p
2½	N 31 W 44	S 62 E 32	S 43 E 25	N 28 W 33	N 57 E 30	S 57 W 23	S 88 E 48	N 03 W 60	N 17 W 67	S 85 E 44	N 25 W 60	N 31 W 58
5	N 33 W 44	S 62 E 32	S 42 E 17	N 51 W 39	N 75 E 30	N 85 W 30	S 55 E 47	N 15 W 75	N 13 W 72	S 53 E 47	N 23 W 61	N 28 W 66
10	N 44 W 43	S 62 E 38	N 40 W 2	N 54 W 44	S 87 E 39	S 59 W 22	S 46 E 50	N 14 W 69	N 16 W 73	S 47 E 47	N 24 W 64	N 28 W 64
15	N 41 W 47	S 27 E 38	N 24 W 18	N 53 W 43	S 72 E 43	S 53 W 29	S 62 E 54	N 10 W 66	N 16 W 70	S 44 E 44	N 26 W 63	N 31 W 72
20	N 44 W 49	S 64 E 37	N 24 W 28	N 52 W 43	S 77 E 45	N 18 W 28	S 32 E 43	N 36 W 59	N 14 W 67	S 30 E 38	N 22 W 68	N 24 W 60
25	N 45 W 49	S 49 E 31	N 09 E 30	N 47 W 42	S 85 E 46	N 11 W 30	S 26 E 35	N 14 W 59	N 18 W 53	S 07 E 37	N 19 W 71	N 20 W 48
27½	N 44 W 49	S 27 E 28	N 36 E 33	N 45 W 46	S 81 E 46	N 30	S 08 E 32	N 16 W 60	N 20 W 49	S 49 W 30	N 17 W 63	N 20 W 54
30	N 28 W 48	S 54 E 27	N 43 E 32	N 37 W 46	S 50 E 46	N 06 E 38	S 17 E 26	N 10 W 56	N 21 W 51	N 41 W 15	N 15 W 56	N 17 W 49
	10 3^{40} a	10 7^{45} a	10 11^{38} a	10 3^{45} p	10 7^{38} p	10 11^{48} p	19 3^{48} a	19 7^{48} a	19 11^{39} a	19 3^{45} p	19 7^{39} p	19 11^{45} p
2½	N 35 W 60	N 64 E 33	S 68 E 17	N 33 W 57	0	N 77 E 30	N 72 E 30	N 05 W 48	N 14 W 67	N 07 E 33	N 13 W 44	N 02 E 48
5	N 43 W 72	N 43 E 33	S 35 E 17	N 30 W 56	N 24 W 17	N 79 E 33	S 40 E 36	N 13 W 58	N 25 W 66	N 07 E 44	N 34 W 49	N 34 W 48
10	N 40 W 72	N 17 E 32	S 69 E 23	N 34 W 59	N 04 W 17	N 79 E 32	S 50 E 24	N 11 W 57	N 21 W 73	N 29 W 43	N 33 W 49	N 34 W 47
15	N 44 W 62	S 67 E 22	S 66 E 23	N 34 W 62	N 10 W 22	S 78 W 5	S 53 E 15	N 20 W 44	N 15 W 69	N 13 W 38	N 33 W 51	N 35 W 57
20	N 36 W 68	S 84 W 24	S 45 E 22	N 31 W 55	N 05 W 22	S 15 W 34	S 59 E 24	N 37 W 49	N 24 W 74	N 05 W 31	N 36 W 51	N 42 W 64
25	N 13 W 45	S 40 W 5	S 45 E 22	N 53 W 41	S 11 E 5	S 47 E 38	S 48 E 29	N 16 W 50	N 24 W 69	N 30	N 37 W 50	N 46 W 62
27½	N 06 W 36	S 17 W 24	S 36 E 22	N 45 W 30	S 11 E 5	S 35 E 36	S 64 E 28	N 18 W 49	N 23 W 64	N 32 W 30	N 30 W 50	N 45 W 51
30	N 02 W 27	S 16 W 24	S 36 E 16	S 61 E 9	S 26 E 24	S 21 E 31	S 73 E 31	N 08 W 51	N 27 W 69	N 31 W 34	N 25 W 50	N 49 W 46
		11 7^{39} a	11 11^{45} a	11 3^{39} p	11 7^{45} p	11 11^{48} p	20 3^{38} a	20 7^{48} a	20 11^{45} a	20 3^{48} p	20 7^{48} p	20 11^{44} p
2½		N 05 E 33	S 12 W 26	N 15 W 49	0	S 64 E 39	S 83 E 17	N 47 E 17	N 34 W 67	N 02 W 25	0	N 30 W 36
5		N 07 E 33	S 07 W 39	N 30 W 59	0	S 61 E 51	S 54 E 23	N 40 E 17	N 34 W 66	N 01 W 25	0	N 27 W 33
10		N 17 E 19	S 24 E 50	N 34 W 62	0	S 70 E 49	S 44 E 17	N 65 W 14	N 35 W 61	N 09 W 24	0	N 28 W 38
15		S 04 W 5	S 35 E 49	N 40 W 47	0	S 52 E 48	S 18 E 19	N 87 W 23	N 33 W 42	N 18 W 22	0	N 26 W 40
20		S 04 W 5	S 37 E 48	N 21 W 43	N 35 W 23	S 27 E 58	N 32 W 2	N 03 E 17	N 30 W 40	N 16 W 21	N 25 E 14	N 24 W 46
25		S 04 W 5	S 30 E 46	N 01 E 33	N 46 W 23	S 18 E 57	S 80 E 13	S 71 W 17	N 30 W 50	N 20 W 18	N 12 W 17	N 22 W 48
27½		S 04 W 5	S 30 E 33	N 18 E 21	N 47 W 23	S 04 E 52	N 32 W 2	N 47 E 17	N 20 W 50	N 17 W 18	N 11 W 23	N 26 W 49
30		S 04 W 5	S 10 E 17	N 74 E 13	N 46 W 23	S 07 E 51	N 32 W 2	N 44 E 17	N 20 W 36	N 07 E 21	N 15 W 23	N 27 W 50
	12 3^{48} a	12 7^{38} a	12 11^{44} a	12 3^{48} p	12 7^{41} p	12 11^{38} p	21 3^{42} a	21 7^{38} a	21 11^{48} a	21 3^{45} p	21 7^{48} p	21 11^{38} p
2½	N 13 W 39	N 24 W 47	S 36 E 49	N 03 W 47	N 36 W 44	S 64 E 34	N 35 W 23	S 41 E 48	N 23 W 67	N 02 W 52	S 38 E 23	N 22 W 50
5	N 48 W 44	N 40 W 44	S 34 E 52	N 30 W 47	N 27 W 46	S 60 E 33	N 46 W 33	S 43 E 58	N 10 W 57	N 06 E 49	S 11 E 28	N 34 W 66
10	N 38 W 43	N 43 W 39	S 19 E 59	N 44 W 47	N 29 W 48	S 56 E 32	N 54 W 32	S 42 E 46	N 01 W 65	N 45 E 49	S 35 E 27	N 30 W 64
15	N 54 W 43	N 38 W 38	S 31 E 65	N 44 W 49	N 32 W 47	S 53 E 39	N 60 W 32	S 43 E 53	N 01 W 63	N 15 E 50	S 69 E 24	N 28 W 62
20	N 32 W 38	N 46 W 38	S 42 E 57	N 32 W 49	N 27 W 48	S 51 E 37	N 57 W 21	S 34 E 54	N 10 E 58	N 28 E 49	N 44 E 25	N 24 W 64
25	N 68 W 30	N 44 W 35	S 22 E 60	N 33 W 49	N 33 W 48	S 68 E 27	S 52 E 7	S 45 E 52	N 07 E 59	N 29 E 48	N 47 E 25	N 26 W 55
27½	N 63 W 30	N 47 W 25	S 24 E 59	N 33 W 49	N 30 W 48	S 73 E 15	N 10 W 21	S 46 E 44	N 01 E 55	N 10 E 48	N 54 W 31	N 15 W 55
30	N 67 W 30	N 69 W 31	S 26 E 44	N 40 W 49	N 29 W 48	S 02 W 17	N 14 W 31	S 42 E 29	N 47	N 20 E 47	S 42 W 34	N 12 W 58

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm sec.

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Meter	**22** 3³⁹ a	**22** 7⁴⁵ a	**22** 11³⁸ a	**22** 3⁴⁸ p	**22** 7³⁸ p	**22** 11⁴⁸ p	**3** 3⁴⁸ a	**3** 7⁴⁵ a	**3** 11⁴¹ a	**3** 3⁴⁹ p	**3** 7⁴⁹ p	**3** 11⁴⁹ p
2½	N 13 W 48	0	N 35 W 58	N 41 W 48	S 63 E 48	N 35 W 58	N 75 E 20	N 35 W 51	N 49 E 33	S 26 E 33	N 12 W 42	0
5	N 10 W 59	0	N 38 W 58	N 35 W 58	S 48 E 47	N 28 W 66	S 81 E 23	N 18 W 60	N 09 E 27	S 33 E 30	N 39 W 60	N 49 E 23
10	N 16 W 65	0	N 33 W 52	N 16 W 57	S 55 E 57	N 16 W 64	S 79 E 30	N 15 W 68	N 36 E 38	S 38 E 24	N 35 W 76	S 86 E 30
15	N 19 W 63	0	N 32 W 50	N 21 W 50	S 39 E 44	N 17 W 66	S 55 E 29	N 26 W 66	N 49 E 35	N 31 W 5	N 27 W 67	N 17 E 30
20	N 21 W 57	0	N 33 W 42	N 26 W 42	S 45 E 37	N 02 W 60	S 32 E 29	N 35 W 64	N 62 E 31	N 32 W 19	N 24 W 68	N 51 E 24
25	N 26 W 52	S 03 E 23	N 33 W 40	N 44 W 41	S 47 E 42	N 14 W 58	S 37 E 21	N 39 W 53	N 72 E 25	N 30 W 34	N 21 W 70	N 26 E 22
27½	N 38 W 45	S 35 E 23	N 32 W 45	N 38 W 40	S 45 E 21	N 15 W 62	N 24 W 24	N 39 W 41	N 87 E 13	N 29 W 37	N 27 W 60	N 50 E 21
30	N 34 W 41	S 37 E 23	N 36 W 39	N 43 W 36	S 58 E 30	N 17 W 61	N 39 E 23	N 09 W 40	S 47 W 10	N 28 W 40	N 29 W 54	N 70 E 21
	23 3⁴⁰ a	**23** 7⁴⁴ a	**23** 11⁴⁵ a	**23** 3⁴⁸ p	**23** 7⁴⁵ p	**23** 11⁴⁸ p	**4** 3³⁹ a	**4** 7¹⁸ a	**4** 11¹⁸ a	**4** 3⁴⁹ p	**4** 7⁴⁸ p	**4** 11⁴⁸ p
2½	N 17 W 88	N 31 W 28	N 06 E 39	N 29 W 39	S 69 E 23	S 03 E 17	S 03 E 23	N 71 W 26	N 08 W 23	S 49 E 33	N 45 W 33	N 55 E 17
5	N 19 W 81	N 34 W 20	N 11 E 33	N 37 W 46	S 48 E 23	S 15 W 17	S 08 E 23	N 33 W 55	N 28 W 23	S 43 E 33	N 48 W 47	N 61 E 17
10	N 21 W 85	S 32 E 2	N 14 W 32	N 32 W 46	S 48 E 23	S 27 W 17	N 18 E 17	N 27 W 74	S 56 E 39	S 43 E 38	N 54 W 48	S 80 E 29
15	N 22 W 76	S 32 E 2	N 30 W 32	N 46 W 46	S 34 E 22	S 15 W 16	N 32 W 30	N 24 W 75	S 22 E 36	S 55 E 28	N 41 W 48	S 62 E 27
20	N 30 W 74	S 47 E 21	N 32 W 20	N 49 W 46	S 32 E 16	S 17 W 19	N 13 W 33	N 35 W 64	N 03 E 32	S 44 E 31	N 37 W 46	S 39 E 32
25	N 39 W 68	S 40 E 30	N 18 W 20	N 42 W 46	S 34 E 16	N 29 W 15	N 12 W 32	N 25 W 61	N 70 W 22	S 39 E 31	N 40 W 42	S 27 E 38
27½	N 44 W 62	S 45 E 33	N 30 W 14	N 40 W 46	S 45 E 16	N 03 E 16	N 01 W 22	N 22 W 61	S 57 E 27	S 51 E 19	N 34 W 36	S 51 E 36
30	N 46 W 59	S 46 E 37	N 34 W 14	N 38 W 46	S 56 E 22	S 77 E 14	S 23 E 5	N 24 W 55	S 02 W 22	S 88 E 13	N 19 W 29	S 33 E 31
	24 3⁴⁸ a	**24** 7⁴⁴ a	**24** 11⁴⁸ a	**24** 3⁴⁴ p	**24** 7³⁸ p	**24** 11³⁸ p	**5** 3³⁸ a	**5** 7³⁸ a	**5** 11⁴⁴ a	**5** 3⁴⁸ p	**5** 7⁴⁸ p	**5** 11⁴⁸ p
2½	N 25 W 44	S 61 E 23	S 15 W 33	N 04 E 23	S 86 E 17	S 48 E 28	S 81 E 23	N 09 E 51	N 43 W 40	S 43 E 39	N 43 W 34	N 40 W 30
5	N 23 W 44	S 64 E 28	S 34 E 44	N 25 W 36	S 69 E 20	N 05 W 14	S 83 E 23	N 02 W 50	N 42 W 40	S 45 E 44	N 41 W 44	N 48 W 46
10	N 35 W 43	S 67 E 25	S 41 E 47	N 24 W 31	S 78 E 28	S 59 E 14	S 81 E 23	N 03 W 42	N 53 W 37	S 27 E 43	N 33 W 43	N 55 W 36
15	N 34 W 45	S 66 E 18	S 24 E 48	N 04 W 27	S 68 E 32	S 76 E 23	S 68 E 29	N 31	N 24 W 39	S 56 E 38	N 27 W 42	N 52 W 28
20	N 22 W 40	S 53 E 18	S 21 E 48	N 33 W 26	S 63 E 36	S 55 E 16	S 79 E 32	N 36	N 26 W 37	S 49 E 31	N 11 W 54	S 53 E 8
25	N 25 W 40	S 12 E 21	S 21 E 46	N 26 W 28	S 60 E 36	N 40 W 3	S 75 E 32	N 05 E 54	N 43 W 24	S 55 E 30	N 08 W 53	S 44 W 22
27½	N 37 W 37	S 15 E 19	S 20 E 40	N 32 W 17	S 61 E 40	S 86 E 22	S 77 E 31	N 15 W 51	N 06 E 22	S 47 E 26	N 11 W 45	S 44 W 37
30	N 37 W 37	S 08 E 24	S 26 E 38	N 57 W 21	S 59 E 43	S 67 E 22	S 56 E 31	N 18 W 45	N 40 E 15	S 59 E 26	N 25 W 33	S 38 W 30
	25 3⁴⁸ a	**25** 7⁴⁸ a	**25** 11⁴⁴ a	**25** 3⁴⁸ p	**25** 7³⁹ p	**25** 11⁴⁵ p	**6** 3⁴⁰ a	**6** 7³⁸ a	**6** 11⁴⁴ a	**6** 3⁴⁴ p	**6** 7³⁸ p	**6** 11⁴⁸ p
2½	N 23 W 78	N 53 W 39	N 63 W 33	N 43 W 76	N 46 W 51	S 33 E 23	S 45 E 41	0	N 37 E 42	S 54 E 39	N 03 W 51	N 03 W 48
5	N 08 W 77	N 30 W 46	N 30 E 28	N 33 W 74	N 25 W 57	S 33 E 23	S 43 E 44	N 41 W 33	N 06 E 60	S 58 E 46	N 08 W 60	N 18 W 66
10	N 18 W 79	N 33 W 50	N 38 E 25	N 32 W 63	N 30 W 49	S 28 E 23	S 36 E 48	N 18 W 36	N 16 E 55	S 43 E 54	N 59	N 23 W 74
15	N 18 W 77	N 50 W 52	N 70 E 32	N 34 W 61	N 41 W 52	S 22 E 22	S 39 E 46	N 09 W 38	N 20 W 54	S 48 E 52	N 02 W 57	N 16 W 71
20	N 23 W 69	N 49 W 57	N 27 E 24	N 29 W 68	N 38 W 60	S 44 E 33	S 22 E 40	N 12 W 38	N 38 W 40	N 85 E 36	N 02 E 59	N 12 W 77
25	N 21 W 68	N 40 W 55	N 45 E 26	N 33 W 74	N 35 W 59	S 51 E 32	S 40 E 30	N 14 W 38	N 42 W 34	N 45 E 45	N 04 W 63	N 24 W 44
27½	N 26 W 67	N 30 W 51	N 40 E 20	N 39 W 74	N 30 W 50	S 50 E 29	S 01 W 6	N 17 W 31	N 60 W 34	N 34 E 48	N 07 W 62	N 12 W 64
30	N 21 W 66	N 34 W 50	N 33 E 17	N 33 W 72	N 09 W 40	S 38 E 21	N 34 W 15	N 21 W 30	N 35 W 35	N 12 E 54	N 04 E 61	N 12 W 68
	26 3³⁸ a	**26** 7⁴⁸ a	**26** 11⁴⁸ a	**26** 3⁴⁸ p	**26** 7⁴⁸ p	**26** 11³⁸ p	**7** 3⁴⁰ a	**7** 7⁴¹ a	**7** 11³⁸ a	**7** 3³⁹ p	**7** 7³⁹ p	**7** 11⁴⁸ p
2½	N 26 W 60	N 20 W 46	N 69 E 28	N 35 W 33	0	S 40 E 34	N 67 E 26	N 13 W 58	N 22 E 48	S 43 E 44	S 22 W 23	S 79 W 28
5	N 32 W 77	N 50 W 42	S 34 E 39	N 52 W 33	0	S 37 E 39	N 15 W 57	N 61	N 05 E 66	S 47 E 39	0	S 83 W 33
10	N 30 W 75	N 56 W 34	S 14 E 46	N 73 W 29	0	S 31 E 45	N 28 W 59	N 28 W 65	N 11 W 64	S 45 E 38	0	S 89 W 38
15	N 34 W 68	N 32 W 31	S 14 E 47	N 66 W 21	N 13 W 17	S 29 E 44	N 33 W 40	N 34 W 68	N 15 W 63	S 44 E 31	0	S 79 W 38
20	N 26 W 61	N 32 W 35	S 25 E 43	N 55 W 23	N 15 W 16	S 28 E 56	N 25 W 34	N 16 W 68	N 02 W 60	S 60 E 38	0	S 73 W 35
25	N 33 W 60	N 40 W 27	S 14 E 42	N 26 W 20	N 14 W 2	S 17 E 61	N 33 W 56	N 14 W 71	N 02 W 58	S 57 E 31	N 35 E 33	S 83 W 30
27½	N 30 W 54	N 31 W 30	S 24 E 40	N 54 W 20	S 25 W 23	S 27 E 62	N 30 W 40	N 09 W 68	N 08 W 43	S 44 E 30	N 04 E 33	N 77 W 31
30	N 19 W 49	N 54 W 19	S 33 E 40	N 15 W 15	S 27 W 23	S 37 E 60	N 42 W 24	N 04 W 69	N 23 W 33	S 52 E 30	N 40 E 32	S 84 W 33
	27 3⁴⁵ a	**27** 7³⁸ a	**27** 11⁴⁴ a	**27** 3⁴⁹ p	**27** 7⁴⁸ p	**27** 11³⁹ p	**8** 3⁴⁸ a	**8** 7⁴⁴ a	**8** 11⁴² a		**8** 7⁴⁴ p	**8** 11⁴⁸ p
2½	N 21 W 39	N 41 W 55	S 43 E 44	N 17 E 26	N 16 W 23	S 38 E 44	S 18 E 51	S 23 E 76	S 17 W 35		S 43 E 46	N 35 W 44
5	N 18 W 51	N 43 W 60	S 40 E 48	N 08 W 39	N 72 W 39	S 50 E 43	S 08 E 50	S 12 E 73	S 24 W 38		S 41 E 52	N 28 W 51
10	N 07 W 50	N 40 W 36	S 39 E 55	N 36 W 48	N 29 W 42	S 35 E 47	S 18 E 59	S 09 E 74	S 10 W 32		S 40 E 59	N 06 W 38
15	N 07 W 48	N 30 W 43	S 42 E 58	N 38 W 49	N 37 W 45	S 36 E 44	S 34 E 58	S 17 E 66	S 06 W 32		S 38 E 58	N 04 W 29
20	N 09 W 33	N 22 W 29	S 42 E 56	N 31 W 45	N 34 W 35	S 27 E 46	S 34 E 56	S 18 E 62	S 25 E 39		S 41 E 63	N 08 E 31
25	N 05 W 34	N 13 W 19	S 40 E 55	N 30 W 39	N 64 W 19	S 30 E 49	S 23 E 63	S 20 E 57	S 33 E 40		S 39 E 60	N 17 E 22
27½	N 30 W 33	N 24 W 25	S 43 E 48	N 15 W 33	N 70 W 19	S 27 E 38	S 21 E 63	S 34 E 50	S 28 E 41		S 55 E 54	N 20 E 22
30	N 30 W 33	N 36 W 28	S 48 E 44	N 05 E 25	S 81 W 20	S 19 E 36	S 23 E 61	S 45 E 46	S 37 E 36		S 56 E 47	N 20 E 21
	28 3⁴⁰ a	**28** 7⁴⁵ a	**28** 11⁴⁵ a	**28** 3⁴⁵ p	**28** 7³⁸ p	**28** 11⁴⁸ p	**9** 3⁴⁸ a	**9** 7⁴⁸ a	**9** 11⁴⁴ a	**9** 3⁴⁵ p	**9** 7⁴⁴ p	**9** 11³⁸ p
2½	N 29 W 30	N 34 W 51	S 45 E 44	N 33 W 26	N 21 W 51	S 83 E 47	N 22 W 44	S 88 E 23	N 61 W 39	N 43 W 67	N 13 W 39	N 38 W 78
5	N 30 W 33	N 33 W 38	S 48 E 48	N 23 W 26	N 21 W 48	S 80 E 47	N 20 W 44	S 88 E 23	N 63 W 48	N 43 W 75	N 16 E 48	N 20 W 76
10	N 33 W 37	N 32 W 38	S 44 E 42	N 07 W 19	N 29 W 37	S 83 E 46	N 16 W 42	N 87 E 16	N 50 W 55	N 38 W 73	N 50 E 41	N 22 W 57
15	N 31 W 32	N 33 W 37	S 28 E 48	S 22 E 3	N 11 W 23	S 61 E 43	N 30 W 37	S 26	N 33 W 58	N 38 W 61	N 80 E 38	N 22 W 55
20	N 30 W 33	N 47 W 31	S 32 E 47	N 53 W 18	N 13 W 41	S 48 E 42	N 26 W 31	S 02 E 25	N 44 W 57	N 30 W 49	S 45 E 26	N 17 W 50
25	N 27 W 37	N 57 W 31	S 25 E 38	N 44 W 25	N 22 W 45	S 50 E 40	N 43 W 28	S 48 W 26	N 40 W 60	N 33 W 33	S 46 W 11	N 04 W 42
27½	N 25 W 40	N 57 W 30	S 25 E 38	N 72 W 25	N 38 W 35	S 47 E 41	N 77 W 22	S 28 W 25	N 06 W 55	N 50 W 33	S 46 W 11	N 25 E 36
30	N 24 W 42	N 64 W 20	S 10 E 33	S 80 W 18	N 80 W 21	S 53 E 40	N 42 W 20	S 55 W 22	N 04 W 55	N 52 W 32	S 46 W 11	N 26 W 41
	1 3³⁹ a	**1** 7⁴⁴ a	**1** 11⁴⁵ a	**1** 3⁴⁸ p	**1** 7⁴⁵ p	**1** 11⁴⁸ p	**10** 3³⁸ a	**10** 7⁴⁶ a	**10** 11⁴⁸ a	**10** 3⁴⁴ p	**10** 7⁴⁸ p	**10** 11⁴⁸ p
2½	N 27 W 30	N 13 W 47	S 63 E 39	N 72 W 33	N 15 W 39	S 68 E 36	N 33 W 69	N 73 W 30	N 88 W 33	N 73 W 51	S 53 E 39	0
5	N 44 W 37	N 10 W 47	S 59 E 39	N 04 W 31	N 11 W 51	S 66 E 30	N 31 W 74	N 16 E 33	N 62 W 33	N 72 W 48	S 69 E 39	0
10	N 40 W 36	N 13 W 48	S 59 E 32	N 05 E 25	N 12 W 59	S 60 E 32	N 22 W 75	S 44 E 48	S 33 E 39	N 58 W 43	S 67 E 50	S 39 E 17
15	N 27 W 42	N 14 W 49	S 54 E 31	N 13 E 24	N 43 W 58	S 37 E 35	N 25 W 55	S 57 E 49	S 55 E 39	N 48 W 36	S 50 E 45	S 38 E 11
20	N 27 W 45	N 15 W 47	S 40 E 31	N 10 W 18	N 20 W 75	S 37 E 35	N 28 W 35	S 40 E 51	S 43 E 40	N 21 W 18	S 37 E 49	S 80 E 10
25	N 25 W 42	N 14 W 46	S 36 E 38	N 57 W 18	N 30 W 43	S 35 E 38	N 50 W 29	S 15 E 43	S 62 E 37	S 58 E 29	S 22 E 46	N 71 E 22
27½	N 11 W 42	N 43 W 47	S 35 E 38	N 24 W 26	N 60 W 44	S 43 E 34	N 51 W 34	S 26 E 40	S 54 E 37	S 50 E 36	S 40 E 44	N 63 E 30
30	N 11 W 41	N 44 W 47	S 47 E 37	N 77 W 29	N 39 W 43	S 50 E 37	N 51 W 34	S 24 E 40	S 56 E 36	S 29 E 34	S 36 E 42	N 64 E 29
	2 3⁴⁸ a	**2** 7⁴² a	**2** 11⁴⁴ a	**2** 3⁴⁹ p	**2** 7⁴¹ p	**2** 11³⁸ p	**11** 3⁴³ a	**11** 7³⁸ a	**11** 11⁴² a		**11** 7⁴⁸ p	**11** 11⁴⁸ p
2½	0	N 23 W 44	S 70 E 39	N 48 W 28	N 34 W 49	N 77 E 46	N 33 W 51	N 57 E 30	N 72 E 19		N 05 E 39	N 73 E 56
5	0	N 35 W 57	S 73 E 46	N 07 E 28	N 36 W 51	S 83 E 44	N 33 W 60	N 89 E 23	S 88 E 26		N 21 E 36	N 70 E 20
10	S 57 W 23	N 33 W 62	S 63 E 52	N 69 W 23	N 40 W 53	S 73 E 35	N 43 W 62	S 42 E 28	S 21 E 32		N 80 E 27	S 43 E 22
15	S 55 W 17	N 26 W 57	S 66 E 58	N 08 W 22	N 37 W 63	S 35 E 21	N 34 W 46	S 20 E 30	S 44 E 18		S 69 E 23	N 05 W 20
20	N 43 W 33	N 22 W 52	S 70 E 57	N 56 W 22	N 37 W 63	S 32 E 29	N 20 W 33	S 37 E 29	N 80 E 18		N 83 E 27	N 40 W 24
25	N 56 W 32	N 19 W 45	S 65 E 51	N 17 W 32	N 37 W 60	S 41 E 37	N 16 W 27	S 09 E 32	S 34 E 13		S 50 E 27	N 77 W 25
27½	N 40 W 29	N 20 W 38	S 50 E 41	N 06 W 29	N 32 W 53	S 32 E 35	N 31 W 23	S 14 E 32	N 26 E 9		S 82 E 15	N 47 E 22
30	N 36 W 29	N 21 W 30	S 53 E 30	N 06 E 26	N 33 W 52	S 35 E 34	N 28 W 15	S 20 E 28	N 37 E 15		S 89 E 15	N 34 E 35

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	12 3^{45} a	12 7^{38} a	12 11^{43} a	12 3^{45} p	12 7^{38} p	12 11^{48} p	21 3^{38} a	21 7^{48} a	21 11^{48} a	21 3^{45} p	21 7^{44} p	21 11^{45} p
$2^1/_2$	N 05 W 51	N 28 W 44	S 65 E 28	N 39 W 39	N 25 W 60	S 43 E 33	S 75 E 23	N 13 W 39	N 07 E 69	N 03 W 44	N 09 W 48	N 19 W 69
5	N 43 W 60	N 25 W 47	S 54 E 33	N 37 W 47	N 24 W 56	S 33 E 33	S 73 E 33	N 12 W 51	N 02 W 70	N 08 W 47	N 11 W 47	N 33 W 68
10	N 46 W 68	N 32 W 38	S 54 E 27	N 34 W 47	N 04 W 48	S 44 E 32	N 85 E 32	N 10 W 50	N 08 W 75	N 17 W 47	N 06 W 44	N 36 W 58
15	N 12 W 78	N 09 E 35	S 08 E 29	N 37 W 47	S 26 E 21	S 44 E 32	S 73 E 29	N 11 W 58	N 03 W 71	N 23 W 49	N 08 W 42	N 37 W 56
20	N 26 W 72	S 21 E 9	S 21 E 30	N 38 W 46	S 29 E 21	S 17 E 43	S 74 E 31	N 08 W 66	N 23 W 75	N 10 W 49	N 19 W 42	N 26 W 55
25	N 23 W 66	S 42 W 24	S 44 E 31	N 47 W 37	S 06 E 31	S 03 W 47	S 67 E 31	N 08 E 59	N 21 W 73	N 02 W 49	N 24 W 45	N 16 W 43
$27^1/_2$	N 40 W 66	S 36 W 24	S 01 W 32	N 52 W 29	S 20 W 35	S 01 E 43	S 70 E 37	N 04 W 54	N 25 W 68	N 05 W 47	N 27 W 46	N 15 W 42
30	N 46 W 65	S 36 W 24	S 04 E 25	N 33 W 29	S 08 W 35	S 16 E 30	S 52 E 34	N 08 W 50	N 19 W 65	N 07 W 46	N 31 W 47	N 26 W 53
	13 3^{40} a	**13** 7^{45} a	**13** 11^{45} a	**13** 3^{48} p	**13** 7^{38} p	**13** 11^{48} p	**22** 3^{48} a	**22** 7^{38} a	**22** 11^{48} a	**22** 3^{48} p	**22** 7^{48} p	**22** 11^{44} p
$2^1/_2$	N 58 W 76	N 33 W 51	N 84 E 23	N 28 W 69	N 17 W 51	N 35 E 39	N 25 W 64	N 03 W 30	N 46 W 39	N 24 W 43	S 48 E 25	N 21 W 33
5	N 66 W 78	N 51 W 69	N 77 E 23	N 25 W 79	N 55 W 51	S 25 E 39	N 23 W 54	N 14 E 20	N 47 W 44	N 33 W 50	S 55 E 30	N 39 W 39
10	N 72 W 72	N 24 W 59	N 84 E 27	N 31 W 78	N 47 W 59	S 17 E 44	N 11 W 37	S 2	N 40 W 41	N 28 W 47	S 62 E 29	N 34 W 43
15	N 76 W 69	N 19 W 34	S 86 E 29	N 36 W 72	N 43 W 58	S 48 E 41	N 10 W 22	S 03 E 15	N 27 W 35	N 23 W 43	S 64 E 32	N 33 W 49
20	N 80 W 64	N 22 W 34	S 44 E 29	N 26 W 71	N 36 W 45	S 48 E 43	N 24 W 13	S 32 E 23	N 28 W 31	N 23 W 36	S 56 E 32	N 21 W 49
25	N 83 W 56	N 60 W 17	N 84 W 6	N 22 W 60	N 30 W 44	S 62 E 42	N 59 W 13	S 26 E 33	N 14 W 27	N 25 W 26	S 58 E 25	N 14 W 50
$27^1/_2$	N 81 W 46	N 60 W 17	N 84 W 6	N 20 W 56	N 25 W 44	S 65 E 40	S 56 W 13	S 36 E 28	N 27	N 35 W 20	S 30 E 20	N 08 W 47
30	N 84 W 40	N 38 W 17	N 84 W 6	N 22 W 56	N 03 W 38	S 73 E 40	S 84 W 09	S 38 E 22	N 01 W 27	N 82 W 19	S 15 E 21	N 10 W 46
	14 3^{48} a	**14** 7^{44} a	**14** 11^{48} a	**14** 3^{38} p	**14** 7^{45} p	**14** 11^{38} p	**23** 3^{45} a	**23** 7^{48} a	**23** 11^{45} a	**23** 3^{45} p	**23** 7^{38} p	**23** 11^{48} p
$2^1/_2$	N 08 W 67	N 39 W 73	S 63 E 19	N 49 W 33	N 39 W 67	S 73 E 39	N 28 W 69	S 19 W 33	0	N 04 E 67	S 73 E 33	N 15 E 33
5	N 10 W 66	N 38 W 67	S 65 E 34	N 15 W 37	N 50 W 66	S 68 E 51	N 37 W 68	S 50 E 39	N 21 W 23	N 30 W 66	S 66 E 44	N 03 W 42
10	N 13 W 68	N 44 W 78	S 61 E 33	N 20 W 40	N 56 W 64	S 62 E 37	N 28 W 58	S 61 E 39	N 28 W 33	N 30 W 73	S 81 E 38	N 04 W 39
15	N 15 W 71	N 42 W 76	S 63 E 33	N 57 W 43	N 38 W 62	S 58 E 37	N 19 W 56	S 61 E 38	N 42 W 32	N 39 W 71	S 84 E 35	N 34 W 39
20	N 01 W 74	N 35 W 72	S 55 E 37	N 28 W 46	N 51 W 50	S 63 E 31	N 30 W 55	S 80 E 43	N 12 W 38	N 30 W 68	N 80 E 27	N 30 W 46
25	N 18 W 75	N 30 W 65	S 33 E 37	N 45 W 45	N 55 W 49	S 57 E 35	N 35 W 43	S 61 E 43	N 03 E 32	N 08 W 47	N 79 E 30	N 34 W 46
$27^1/_2$	N 20 W 75	N 35 W 65	S 51 E 36	N 36 W 42	N 77 W 49	S 51 E 35	N 69 W 31	S 47 E 40	N 08 E 31	N 08 W 46	N 73 E 30	N 33 W 46
30	N 20 W 76	N 38 W 67	S 48 E 36	N 37 W 39	N 45 W 58	S 55 E 34	N 71 W 31	S 44 E 40	N 38	N 16 W 29	N 79 E 30	N 04 W 46
	15 3^{48} a	**15** 7^{48} a	**15** 11^{41} a	**15** 3^{45} p	**15** 7^{44} p	**15** 11^{38} p	**24** 3^{38} a	**24** 7^{45} a	**24** 11^{45} a	**24** 3^{45} p	**24** 7^{48} p	**24** 11^{38} p
$2^1/_2$	N 03 W 78	N 28 W 67	N 59 E 25	N 28 W 48	N 04 E 60	S 20 E 23	N 30 W 46	S 16 E 26	S 05 W 23	N 34 W 60	N 03 W 23	S 41 E 23
5	N 10 W 62	N 24 W 66	N 30 E 20	N 26 W 58	N 51 W 78	S 23 E 23	N 32 W 53	S 39 E 26	S 05 W 39	N 32 W 60	N 17 E 23	S 33 E 23
10	N 19 W 67	N 39 W 73	S 55 W 2	N 25 W 57	N 43 W 78	S 23 E 28	N 30 W 59	S 43 E 34	S 56 W 44	N 39 W 48	S 74 E 33	N 33 W 1
15	N 34 W 70	N 31 W 79	N 40 E 19	N 12 W 64	N 40 W 72	S 25 E 32	N 30 W 61	S 31 E 33	S 41 E 39	N 36 W 35	S 64 E 44	N 25 W 28
20	N 06 W 72	N 37 W 76	N 69 E 27	N 11 W 62	N 37 W 74	S 26 E 35	N 30 W 56	S 26 E 38	S 52 E 38	N 40 W 34	S 74 E 41	N 27 W 30
25	N 04 W 70	N 33 W 64	S 60 W 5	N 18 W 59	N 37 W 69	S 37 E 36	N 31 W 54	S 13 E 23	S 63 E 31	N 25 W 46	S 62 E 41	N 18 W 22
$27^1/_2$	N 19 W 72	N 24 W 58	N 81 E 18	N 23 W 49	N 39 W 68	S 54 E 38	N 35 W 50	S 13 E 23	S 66 E 31	N 24 W 46	S 31 E 41	N 15 W 30
30	N 14 W 68	N 26 W 54	N 64 E 15	N 20 W 48	N 36 W 69	S 42 E 43	N 37 W 42	S 10 E 37	N 88 E 22	N 26 W 40	S 32 E 42	N 12 W 32
	16 3^{38} a	**16** 7^{48} a	**16** 11^{48} a	**16** 3^{44} p	**16** 7^{48} p	**16** 11^{45} p	**25** 3^{48} a	**25** 7^{44} a	**25** 11^{46} a	**25** 3^{44} p	**25** 7^{46} p	**25** 11^{48} p
$2^1/_2$	N 13 W 47	N 38 W 67	S 71 E 33	S 62 W 36	N 55 W 26	S 51 E 51	N 25 W 58	N 18 W 49	N 27 W 44	N 33 W 90	N 35 W 44	N 33 W 33
5	N 26 W 47	N 34 W 75	S 86 E 33	N 89 W 23	N 54 W 39	S 53 E 60	N 23 W 66	N 23 W 58	N 18 W 44	N 29 W 81	N 33 W 47	N 48 W 47
10	N 39 W 49	N 37 W 64	N 82 E 38	N 66 W 19	N 51 W 45	S 48 E 59	N 21 W 87	N 07 W 53	N 03 E 38	N 26 W 81	N 34 W 47	N 39 W 47
15	N 30 W 48	N 39 W 58	S 61 E 41	N 50 W 16	N 64 W 42	S 32 E 66	N 18 W 85	N 61 E 24	N 19 W 43	N 24 W 77	N 36 W 49	N 40 W 47
20	N 22 W 46	N 36 W 55	S 49 E 43	E 4	N 40 W 43	S 36 E 55	N 15 W 80	N 80 E 29	N 20 W 43	N 26 W 67	N 27 W 49	N 30 W 47
25	N 24 W 41	N 22 W 53	S 68 E 30	N 74 E 24	N 65 W 35	S 32 E 54	N 18 W 72	S 89 E 26	N 29 W 37	N 22 W 61	N 26 W 46	N 27 W 42
$27^1/_2$	N 20 W 41	N 28 W 40	S 60 E 30	E 4	N 89 W 20	S 52 E 53	N 26 W 71	S 55 E 34	N 28 W 37	N 24 W 57	N 17 W 46	N 23 W 42
30	N 20 W 39	N 54 W 32	S 40 E 42	E 4	N 84 W 20	S 67 E 62	N 27 W 60	S 48 E 39	N 13 W 42	N 31 W 49	N 38 W 48	N 20 W 36
	17 3^{38} a	**17** 7^{44} a	**17** 11^{48} a	**17** 3^{48} p	**17** 7^{48} p	**17** 11^{48} p	**26** 3^{38} a	**26** 7^{48} a	**26** 11^{44} a	**26** 3^{45} p	**26** 7^{44} p	**26** 11^{45} p
$2^1/_2$	0	N 13 W 60	N 12 E 25	N 58 W 39	N 65 W 39	N 87 E 23	N 30 W 76	N 26 W 67	N 02 W 39	N 31 W 85	N 46 W 39	N 78 W 33
5	0	N 08 W 68	N 07 W 33	N 53 W 33	N 43 W 51	S 63 E 28	N 33 W 74	N 14 W 72	N 45 W 47	N 28 W 83	N 18 W 48	N 75 W 22
10	S 17 W 23	N 19 W 66	N 23 E 46	N 48 W 34	N 50 W 59	S 48 E 25	N 28 W 78	N 23 W 81	N 29 W 44	N 33 W 88	N 24 W 50	N 50 W 22
15	S 46 W 23	N 07 W 64	N 60 E 38	N 60 W 35	N 35 W 61	S 22	N 29 W 69	N 03 W 70	N 30 W 42	N 27 W 76	N 13 W 51	S 76 E 4
20	N 27 E 2	N 07 W 71	N 10 E 27	N 20 W 35	N 25 W 74	S 41 W 23	N 29 W 67	N 36 W 41	N 08 E 32	N 28 W 74	N 17 W 35	S 69 E 34
25	N 56 E 39	N 16 W 69	N 16 E 31	N 22 W 35	N 26 W 63	S 14 W 24	N 30 W 74	S 75 E 34	N 50 E 21	N 25 W 52	N 15 W 26	S 59 E 39
$27^1/_2$	N 45 E 42	N 13 W 68	N 01 E 38	N 30 W 38	N 40 W 49	S 28 E 32	N 28 W 64	S 79 E 31	N 88 E 30	N 39 W 32	N 65 E 15	S 73 E 44
30	N 41 E 47	N 25 W 68	S 54 E 24	N 16 W 38	N 68 W 42	S 34 E 37	N 28 W 63	S 86 E 26	S 74 E 35	N 40 W 39	S 24 E 15	S 57 E 44
	18 3^{45} a	**18** 7^{38} a	**18** 11^{38} a	**18** 3^{48} p	**18** 7^{38} p	**18** 11^{48} p	**27** 3^{48} a	**27** 7^{38} a	**27** 11^{46} a	**27** 3^{41} p	**27** 7^{48} p	**27** 11^{49} p
$2^1/_2$	S 35 E 44	N 18 W 34	N 12 E 33	S 26 E 23	N 13 W 69	N 87 W 33	N 41 W 85	N 53 W 51	S 22 W 39	N 29 W 39	S 42 W 44	S 10 E 78
5	S 36 E 44	N 43 W 51	N 11 E 36	S 18 E 33	N 20 W 74	N 67 W 39	N 38 W 85	N 67 W 69	S 01 E 60	N 54 W 39	S 34 W 44	S 12 E 79
10	S 24 E 43	N 30 W 59	N 06 E 32	S 20 E 47	N 23 W 75	N 63 W 38	N 38 W 85	N 61 W 67	S 45 E 59	N 53 W 38	S 25 E 42	S 20 E 77
15	S 24 E 38	N 40 W 58	N 16 E 21	S 19 E 45	N 29 W 55	N 44 W 43	N 28 W 76	N 54 W 56	S 45 E 67	N 10 E 38	S 41 E 41	S 35 E 75
20	S 40 E 38	N 39 W 41	S 84 W 15	S 13 W 40	N 28 W 58	N 61 W 38	N 20 W 56	N 46 W 25	S 42 E 65	N 14 E 24	S 43 E 47	S 39 E 73
25	S 36 E 37	N 35 W 37	S 18 W 7	S 07 W 38	N 28 W 52	N 27 W 22	N 28 W 58	N 08 W 15	S 25 E 63	N 46 E 25	S 48 E 49	S 46 E 71
$27^1/_2$	S 28 E 42	N 30 W 32	S 24 W 25	S 16 E 37	N 27 W 47	N 44 W 27	N 24 W 53	S 58 E 21	S 22 E 53	N 45 E 25	S 15 E 48	S 48 E 67
30	S 16 E 42	N 12 W 15	S 30 W 31	S 45 E 37	N 19 W 40	N 39 W 21	N 32 W 50	S 58 E 21	S 34 E 52	S 21 E 11	S 29 E 46	S 59 E 65
	19 3^{40} a	**19** 7^{45} a	**19** 11^{48} a	**19** 3^{45} p	**19** 7^{48} p	**19** 11^{38} p	**28** 3^{45} a	**28** 7^{48} a	**28** 11^{44} a	**28** 3^{48} p	**28** 7^{38} p	**28** 11^{48} p
$2^1/_2$	S 49 E 39	N 38 W 51	N 13 W 47	S 13 E 39	N 21 W 51	N 30 W 69	N 33 W 33	N 35 W 33	S 33 E 67	S 77 W 30	N 16 W 44	S 24 E 69
5	S 56 E 42	N 42 W 60	N 03 W 44	S 15 E 39	N 21 W 50	N 18 W 68	N 27 W 22	N 31 W 39	S 31 E 77	S 85 W 30	N 25 W 39	S 28 E 68
10	S 51 E 43	N 47 W 68	N 03 W 43	S 12 E 38	N 25 W 49	N 14 W 58	S 29 E 3	N 29 W 38	S 41 E 78	S 71 W 32	N 46 W 36	S 27 E 70
15	S 40 E 45	N 32 W 65	N 19 W 42	S 17 E 37	N 18 W 50	N 14 W 33	N 60 E 23	N 35 W 31	S 39 E 71	N 23 W 19	N 71 W 21	S 17 E 61
20	S 23 E 44	N 24 W 64	N 24 W 42	S 30 E 48	N 18 W 53	N 26 W 27	N 60 E 33	S 31 E 9	S 32 E 63	N 11 E 33	S 37 E 8	S 21 E 60
25	S 32 E 43	N 26 W 53	N 30 W 42	S 40 E 20	N 19 W 52	N 34 W 16	N 54 E 38	S 32 E 26	S 35 E 56	N 11 E 36	S 16 E 31	S 44 E 52
$27^1/_2$	S 38 E 45	N 34 W 41	N 43 W 44	S 37 E 20	N 29 W 54	N 30 W 24	N 28 E 38	S 31 E 31	S 30 E 48	N 11 E 38	S 39 E 25	S 43 E 40
30	S 38 E 46	N 34 W 51	N 50 W 44	S 62 E 12	N 25 W 55	S 80 W 6	N 29 E 43	S 18 E 31	S 27 E 40	N 20 E 35	S 22 E 19	S 40 E 26
	20 3^{48} a	**20** 7^{44} a	**20** 11^{43} a	**20** 3^{45} p	**20** 7^{45} p	**20** 11^{48} p	**29** 3^{40} a	**29** 7^{45} a	**29** 11^{48} a	**29** 3^{40} p	**29** 7^{48} p	**29** 11^{38} p
$2^1/_2$	S 39 E 44	N 13 W 39	N 31 W 69	N 23 W 23	N 38 W 60	N 45 W 51	N 80 W 23	N 43 W 39	S 48 E 57	0	N 73 W 44	S 33 E 60
5	S 41 E 49	N 13 W 36	N 23 W 68	N 23 W 23	N 28 W 60	N 38 W 50	N 66 W 17	N 43 W 51	S 50 E 56	S 47 W 14	N 73 W 37	S 37 E 63
10	S 37 E 43	N 13 W 38	N 34 W 67	N 39 E 33	N 12 W 59	N 33 W 49	N 64 W 33	N 45 W 49	S 29 E 53	S 45 W 30	N 74 W 32	S 32 E 67
15	S 47 E 41	N 16 W 34	N 27 W 74	S 60 E 33	N 22 W 57	N 27 W 67	N 63 W 41	N 34 W 36	S 16 E 47	S 43 W 33	N 71 W 15	S 12 E 66
20	S 50 E 42	N 10 W 23	N 27 W 72	S 58 E 32	N 28 W 45	N 21 W 65	N 26 W 36	N 16 W 21	S 15 E 39	N 47 W 17	S 77 E 6	S 16 E 59
25	S 50 E 42	N 08 E 31	N 28 W 66	S 42 E 32	N 28 W 44	N 21 W 60	N 01 E 41	N 12 W 21	S 16 E 33	N 28 W 28	S 77 E 6	S 15 E 53
$27^1/_2$	S 56 E 37	N 18 E 31	N 30 W 50	S 30 E 38	N 03 W 55	N 29 W 53	N 16 E 46	N 20 W 11	S 16 E 33	N 06 W 30	S 22 W 13	S 23 E 45
30	S 60 E 32	N 18 E 33	N 10 W 38	S 40 E 43	N 04 W 54	N 26 W 46	N 12 E 47	N 54 W 20	S 23 E 24	N 04 E 31	S 24 W 13	S 21 E 36

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	**30** 3^{48} a	**30** 7^{41} a	**30** 11^{45} a	**30** 3^{49} p	**30** 7^{45} p	**30** 11^{48} p
$2^1/_2$	S 75 W 17	N 15 W 33	S 89 E 39	N 07 E 45	N 23 W 39	S 61 E 26
5	S 27 W 23	N 01 E 42	N 88 E 51	N 20 E 48	N 23 W 51	S 50 E 34
10	S 27 W 20	N 26 W 43	S 58 E 50	N 12 E 39	N 26 W 59	S 59 E 38
15	S 80 W 16	N 30 W 39	S 41 E 48	N 28 W 38	N 37 W 58	S 44 E 24
20	N 43 E 2	N 25 W 27	S 44 E 47	N 30 W 42	N 36 W 45	S 30 E 24
25	N 43 E 2	N 67 W 19	S 31 E 51	N 34 W 47	N 43 W 33	S 28 E 19
$27^1/_2$	N 21	S 42 W 18	S 32 E 56	N 31 W 48	N 24 W 32	S 25 E 15
30	N 22 E 29	S 31 W 19	S 27 E 33	N 25 W 49	N 24 W 44	S 27 E 15

Meter	**31** 3^{45} a	**31** 7^{48} a	**31** 11^{45} a	**31** 3^{45} p	**31** 7^{44} p	**31** 11^{45} p
$2^1/_2$	N 27 W 23	N 15 W 69	S 70 E 45	S 68 W 33	N 13 W 48	S 73 E 33
5	N 27 W 33	N 18 W 81	S 85 E 49	N 53 W 39	N 52 W 64	S 70 E 33
10	N 28 W 32	N 26 W 80	S 83 E 49	N 48 W 43	N 43 W 70	S 61 E 38
15	N 61 W 32	N 34 W 75	S 87 E 51	N 58 W 47	N 45 W 79	S 65 E 38
20	N 32 W 38	N 31 W 66	N 24 E 32	N 32 W 49	N 50 W 68	S 63 E 38
25	N 25 W 43	N 39 W 49	S 70 W 28	N 16 W 49	N 49 W 58	S 40 E 30
$27^1/_2$	N 20 W 47	N 38 W 48	S 71 W 31	N 20 W 49	N 42 W 54	S 06 W 31
30	N 23 W 46	N 75 W 44	S 82 W 36	N 18 W 49	N 37 W 56	S 08 W 31

Meter	**1** 3^{48} a	**1** 7^{38} a	**1** 11^{45} a	**1** 3^{48} p	**1** 7^{48} p	**1** 11^{40} p
$2^1/_2$	S 47 W 23	N 33 W 39	N 35 W 33	N 71 W 23	N 53 W 71	N 09 E 38
5	S 55 W 33	N 41 W 60	N 35 W 22	N 85 W 31	N 49 W 65	N 13 E 37
10	S 54 W 22	N 41 W 59	S 35 E 2	N 78 W 33	N 47 W 64	S 75 E 23
15	N 55 E 3	N 32 W 66	S 74 E 24	N 74 W 35	N 44 W 62	S 53 E 28
20	N 55 E 3	N 20 W 59	S 71 E 23	N 52 W 36	N 43 W 54	S 48 E 28
25	N 20 W 33	N 24 W 43	S 36 E 23	N 45 W 36	N 10 W 45	S 44 E 27
$27^1/_2$	N 18 W 33	N 21 W 35	S 2	N 29 W 35	N 10 W 45	S 34 E 22
30	N 12 E 33	N 23 W 34	S 2	N 25 W 34	N 04 W 35	S 35 E 24

Meter	**2** 3^{45} a	**2** 7^{51} a	**2** 11^{38} a	**2** 3^{48} p	**2** 7^{38} p	**2** 11^{48} p
$2^1/_2$	S 77 W 33	N 39 W 48	S 55 E 39	S 12 E 20	N 18 W 39	0
5	S 77 W 33	N 38 W 58	S 63 E 42	S 01 E 20	N 27 W 55	0
10	S 68 W 32	N 38 W 65	N 03 E 30	N 01 W 1	N 24 W 53	0
15	S 68 W 29	N 38 W 63	N 42 E 22	N 01 W 1	N 33 W 52	0
20	S 67 W 20	N 21 W 40	S 79 E 21	N 27 W 17	N 24 W 46	S 24 W 14
25	N 70 E 8	N 06 W 39	N 60 E 15	N 20 W 23	N 31 W 33	S 32 W 14
$27^1/_2$	N 38 E 19	N 21 W 38	S 86 W 6	N 03 W 20	N 19 W 38	S 08 E 20
30	N 34 E 25	N 16 W 29	S 75 E 9	N 02 W 30	N 18 W 38	0

Meter	**3** 3^{38} a	**3** 7^{39} a	**3** 11^{38} a	**3** 3^{45} p	**3** 7^{48} p
$2^1/_2$	S 13 E 33	N 32 W 57	N 25 E 23	S 43 E 33	N 38 W 42
5	S 13 E 33	N 33 W 60	N 79 E 17	S 13 E 22	N 49 W 39
10	S 69 E 16	N 36 W 54	S 79 W 1	S 12 W 16	N 39 W 38
15	S 25 E 22	N 33 W 51	S 79 W 1	N 14 W 3	N 49 W 36
20	S 31 E 21	N 27 W 43	S 79 W 1	N 14 W 3	N 05 W 36
25	N 25 W 6	N 28 W 42	S 79 W 1	N 14 W 3	N 05 W 36
$27^1/_2$	N 50 E 17	N 29 W 32	S 79 W 1	N 65 E 17	N 14 W 31
30	N 25 W 6	N 32 W 26	S 79 W 1	N 36 E 18	N 14 W 30

Meter	**4** 3^{48} a	**4** 7^{38} a	**4** 11^{40} a	**4** 3^{48} p	**4** 7^{45} p	**4** 11^{48} p
$2^1/_2$	S 38 E 47	N 52 W 30	N 33 W 23	S 44 E 30	N 45 W 33	N 28 W 33
5	S 47 E 33	N 34 W 33	N 33 W 17	S 31 E 30	N 36 W 33	N 28 W 30
10	S 37 E 32	N 25 W 37	S 33 E 1	S 71 E 30	N 27 W 38	N 29 W 22
15	S 37 E 29	N 27 W 39	S 33 E 1	S 31 E 32	N 18 W 43	N 11 W 22
20	S 24 E 24	N 33 W 39	S 33 E 1	S 12 E 21	N 17 W 47	N 14 W 21
25	S 20 E 21	N 15 W 37	S 33 E 1	S 22 E 21	N 20 W 46	N 37 W 21
$27^1/_2$	S 18 E 15	N 18 W 38	S 40 W 17	S 21 E 21	N 20 W 42	N 37 W 18
30	S 18 E 15	N 14 W 40	S 40 W 17	S 43 E 15	N 19 W 37	N 33 W 15

Meter	**5** 3^{38} a	**5** 7^{48} a	**5** 11^{40} a	**5** 3^{48} p	**5** 7^{44} p	**5** 11^{48} p
$2^1/_2$	S 45 E 26	N 21 E 30	N 31 W 39	S 53 E 44	N 07 E 57	N 35 W 69
5	S 44 E 32	N 08 E 30	N 27 W 40	S 88 E 57	N 14 E 63	N 36 W 68
10	S 33 E 33	N 34 E 29	N 27 W 43	N 64 E 55	N 21 E 48	N 33 W 75
15	S 38 E 38	N 44 E 29	N 26 W 41	S 84 E 47	N 24 E 49	N 17 W 74
20	S 38 E 37	N 48 E 23	N 28 W 37	E 46	N 11 E 40	N 17 W 71
25	S 48 E 37	N 04 E 21	N 16 W 22	S 40 E 39	N 01 E 33	N 24 W 60
$27^1/_2$	S 52 E 31	N 07 W 21	N 53 W 19	S 09 E 42	N 33 W 46	N 20 W 60
30	S 64 E 21	N 08 W 21	N 47 W 16	S 26	N 36 W 61	N 22 W 49

Meter	**6** 3^{48} a	**6** 7^{38} a	**6** 11^{45} a	**6** 3^{46} p	**6** 7^{48} p	**6** 11^{48} p
$2^1/_2$	0	0	N 06 W 51	N 59 E 33	N 03 W 51	N 35 W 57
5	N 06 W 28	N 25 E 23	N 29 W 50	N 07 W 39	N 11 W 50	N 40 W 67
10	N 08 W 28	N 23 E 23	N 26 W 49	N 04 W 44	N 13 W 55	N 36 W 72
15	N 03 E 16	N 06 E 30	N 21 W 58	N 13 W 43	N 04 W 58	N 38 W 74
20	N 38 W 16	N 02 W 27	N 25 W 57	N 13 W 38	N 12 W 56	N 29 W 75
25	N 43 W 11	S 16 W 6	N 37 W 55	N 01 W 38	N 23 W 51	N 30 W 69
$27^1/_2$	N 10 W 11	N 15	N 38 W 44	N 02 W 37	N 26 W 51	N 41 W 66
30	S 46 E 15	N 23 E 26	N 24 W 31	N 08 E 37	N 38 W 50	N 39 W 67

Meter	**7** 3^{45} a	**7** 7^{48} a	**7** 11^{49} a	**7** 3^{48} p	**7** 7^{38} p	**7** 11^{48} p
$2^1/_2$	N 32 E 44	0	N 13 W 39	N 13 W 39	S 75 E 28	N 23 W 51
5	N 07 W 44	0	N 18 W 39	N 23 W 44	N 75 W 1	N 35 W 56
10	N 36 W 47	0	N 21 W 43	N 33 W 43	N 75 W 1	N 34 W 62
15	N 23 W 49	0	N 38 W 43	N 15 W 41	S 36 E 23	N 33 W 57
20	N 43 W 49	N 43 W 14	N 39 W 47	N 46 W 41	S 15 E 22	N 40 W 56
25	N 45 W 46	N 38 W 23	N 41 W 49	N 44 W 39	S 56 E 22	N 26 W 50
$27^1/_2$	N 40 W 46	N 33 W 33	N 46 W 49	N 43 W 39	S 21 E 22	N 28 W 45
30	N 50 W 49	N 34 W 30	N 53 W 48	N 52 W 37	S 29 E 22	N 24 W 44

Meter	**8** 3^{40} a	**8** 7^{45} a	**8** 11^{45} a	**8** 3^{46} p	**8** 7^{48} p	**8** 11^{48} p
$2^1/_2$	N 38 W 49	S 48 E 39	0	N 15 W 39	N 61 E 28	N 04 E 50
5	N 36 W 56	S 42 E 39	N 34 W 17	N 43 W 60	N 60 E 33	N 26 W 39
10	N 32 W 59	S 48 E 38	N 44 W 23	N 45 W 59	N 73 E 37	N 14 W 41
15	N 31 W 59	S 46 E 37	N 27 W 33	N 26 W 46	S 79 E 36	N 23 W 38
20	N 29 W 56	S 62 E 36	N 10 W 32	N 10 W 46	S 81 E 37	N 23 W 43
25	N 30 W 51	S 60 E 21	N 10 W 32	N 11 W 45	S 76 E 38	N 21 W 43
$27^1/_2$	N 30 W 50	S 27 E 21	N 26 W 28	N 27 W 32	S 34 E 31	N 16 W 46
30	N 38 W 49	S 15 E 21	N 35 W 20	N 54 W 15	S 20 E 32	N 05 W 44

Meter	**9** 3^{48} a	**9** 7^{39} a	**9** 11^{45} a	**9** 3^{48} p	**9** 7^{48} p	**9** 11^{48} p
$2^1/_2$	N 10 W 64	S 41 E 33	0	N 21 W 44	N 59 E 33	N 63 W 33
5	N 14 W 63	S 43 E 33	0	N 35 W 50	N 59 E 33	N 54 W 33
10	N 28 W 58	S 39 E 36	N 53 E 17	N 38 W 52	N 62 E 29	S 52 E 4
15	N 34 W 53	S 40 E 39	N 45 E 23	N 35 W 50	N 74 E 29	S 52 E 4
20	N 33 W 51	S 42 E 41	N 34 E 22	N 33 W 49	S 83 E 28	N 60 W 16
25	N 34 W 50	S 40 E 40	N 30 E 22	N 34 W 47	S 82 E 20	N 54 W 16
$27^1/_2$	N 35 W 50	S 41 E 42	N 18 E 22	N 21 W 46	S 72 E 20	N 22 W 16
30	N 32 W 42	S 42 E 37	N 25 W 23	N 26 W 36	S 64 E 20	N 43 W 16

Meter	**10** 3^{38} a	**10** 7^{48} a	**10** 11^{44} a	**10** 3^{45} p	**10** 7^{48} p	**10** 11^{48} p
$2^1/_2$	N 02 W 69	N 72 E 39	N 13 W 33	N 18 W 67	N 42 E 39	N 04 W 33
5	N 10 W 74	N 88 E 39	N 13 W 39	N 19 W 75	N 21 W 40	N 09 W 39
10	N 32 W 67	S 44 E 42	N 03 E 26	N 30 W 81	N 11 W 46	N 09 E 38
15	N 20 W 73	S 53 E 38	S 11 E 6	N 28 W 78	N 13 W 43	N 37 W 31
20	N 26 W 71	S 56 E 35	S 80 E 34	N 16 W 66	N 02 W 42	N 37 W 31
25	N 39 W 69	S 56 E 34	S 75 E 37	N 20 W 56	N 46	N 17 W 27
$27^1/_2$	N 34 W 64	S 60 E 34	E 37	N 27 W 64	N 45	N 51 E 21
30	N 36 W 64	S 69 E 30	N 84 E 34	N 02 W 63	N 08 W 37	N 75 E 22

Meter	**11** 3^{48} a	**11** 7^{38} a	**11** 11^{48} a	**11** 3^{44} p	**11** 7^{48} p	**11** 11^{48} p
$2^1/_2$	N 31 W 69	N 10 W 33	N 72 E 28	N 25 W 46	N 50 W 39	S 81 E 33
5	N 33 W 77	N 65 W 39	S 64 E 23	N 43 W 47	N 48 W 23	S 80 E 33
10	N 27 W 75	N 24 W 39	S 20 E 23	N 45 W 49	N 28 W 22	N 88 E 44
15	N 24 W 75	N 36 W 35	S 09 E 30	N 39 W 48	N 32 W 16	S 82 E 43
20	N 24 W 70	N 76 W 28	S 16 E 29	N 38 W 44	S 25 E 18	S 72 E 43
25	N 34 W 68	S 82 W 31	S 39 E 29	N 21 W 33	S 04 E 24	S 61 E 40
$27^1/_2$	N 30 W 66	S 75 W 21	S 53 E 29	N 20 W 29	S 54	S 53 E 34
30	N 28 W 61	S 30 W 28	S 59 E 31	N 01 W 16	S 05 W 33	S 48 E 30

Meter	**12** 3^{45} a	**12** 7^{48} a	**12** 11^{38} a	**12** 3^{48} p	**12** 7^{42} p	**12** 11^{48} p
$2^1/_2$	N 33 W 26	N 23 W 39	S 68 E 26	N 15 W 33	0	S 42 E 51
5	N 34 W 39	N 33 W 60	S 57 E 34	N 27 W 44	N 56 W 28	S 45 E 60
10	N 35 W 60	N 31 W 59	S 35 E 38	N 33 W 45	N 20 W 27	S 49 E 62
15	N 25 W 58	N 31 W 60	S 37 E 49	N 50 W 43	N 56 W 27	S 35 E 60
20	N 20 W 46	N 19 W 56	S 30 E 48	N 37 W 37	N 83 W 27	S 38 E 55
25	N 20 W 45	N 45 W 43	S 18 E 40	N 54 W 34	N 84 W 21	S 37 E 54
$27^1/_2$	N 16 W 65	N 60 W 36	S 47 E 29	N 44 W 33	N 48 W 21	S 36 E 53
30	N 04 W 55	N 79 W 26	S 20 E 18	N 42 W 33	N 80 W 21	S 40 E 52

Meter	**13** 3^{39} a	**13** 7^{45} a	**13** 11^{48} a	**13** 3^{43} p	**13** 7^{48} p	**13** 11^{38} p
$2^1/_2$	N 10 E 39	N 41 W 39	S 83 E 51	N 12 E 23	N 02 E 44	S 55 E 51
5	N 02 E 37	N 40 W 39	S 58 E 50	N 11 W 28	N 05 W 44	S 40 E 50
10	N 14 W 44	N 35 W 38	S 73 E 59	N 46 W 33	N 26 W 47	S 44 E 55
15	N 13 W 46	N 54 W 49	S 63 E 57	N 44 W 32	N 28 W 47	S 34 E 58
20	N 20 W 42	N 51 W 48	S 56 E 56	N 36 W 38	N 36 W 49	S 40 E 60
25	N 25 W 42	N 32 W 46	S 65 E 50	N 27 W 43	N 29 W 49	S 34 E 58
$27^1/_2$	N 24 W 38	N 21 W 33	S 52 E 50	N 26 W 43	N 47 W 46	S 56 E 58
30	N 22 W 36	N 25 W 45	S 56 E 46	N 29 W 43	N 54 W 45	S 58 E 56

Meter	**14** 3^{48} a	**14** 7^{42} a	**14** 11^{48} a	**14** 3^{45} p	**14** 7^{49} p	**14** 11^{48} p
$2^1/_2$	N 33 W 17	N 45 W 30	S 53 E 51	N 23 W 33	N 18 W 39	S 28 E 44
5	N 25 W 17	N 17 W 47	S 48 E 50	N 11 W 33	N 16 W 51	S 30 E 44
10	N 25 W 20	N 19 W 47	S 57 E 59	N 13 W 44	N 38 W 68	S 17 E 57
15	N 86 W 20	N 19 W 48	S 43 E 57	N 08 W 47	N 38 W 66	S 12 E 45
20	N 78 W 16	N 23 W 46	S 48 E 56	N 23 W 47	N 25 W 64	S 07 E 40
25	N 44 W 16	N 25 W 47	S 41 E 50	N 38 W 42	N 22 W 53	S 29 E 40
$27^1/_2$	N 32 W 16	N 30 W 46	S 41 E 45	N 36 W 37	N 24 W 42	S 34 E 43
30	N 16 W 16	N 34 W 45	S 28 E 43	N 23 W 37	N 49 W 41	S 31 E 49

Meter	**15** 3^{39} a	**15** 7^{44} a	**15** 11^{48} a	**15** 3^{45} p	**15** 7^{48} p	**15** 11^{48} p
$2^1/_2$	0	S 47 W 39	S 07 W 51	S 12 W 76	N 47 W 48	S 47 E 54
5	0	N 67 W 44	S 03 E 60	S 11 W 74	N 49 W 52	S 47 E 60
10	S 03 E 28	N 78 W 43	S 26 E 68	S 14 W 63	S 50 W 43	S 41 E 58
15	S 18 W 33	N 55 W 43	S 19 E 75	S 10 E 61	S 07 W 38	S 53 E 66
20	S 14 W 32	N 60 W 40	S 24 E 72	S 24 E 50	S 26 E 49	S 47 E 70
25	S 46 W 32	N 40 W 37	S 24 E 70	S 44 E 50	S 36 E 53	S 32 E 70
$27^1/_2$	S 65 W 36	N 43 W 37	S 30 E 71	S 54 E 50	S 33 E 47	S 24 E 69
30	S 49 W 35	N 26 W 33	S 36 E 70	S 70 E 39	S 31 E 45	S 35 E 50

Meter	**16** 3^{48} a	**16** 7^{38} a	**16** 11^{45} a	**16** 3^{49} p	**16** 7^{48} p	**16** 11^{48} p
$2^1/_2$	S 15 E 58	S 57 W 36	N 45 E 39	S 25 E 39	N 33 W 39	N 08 E 50
5	S 19 E 66	S 72 W 44	N 53 E 44	S 29 E 33	N 50 W 60	N 07 E 56
10	S 15 E 64	N 72 W 46	S 69 E 32	S 25 E 32	N 42 W 62	N 14 W 72
15	S 15 E 58	N 26 W 41	S 39 E 39	S 18 E 32	N 35 W 60	S 05 W 24
20	S 28 E 57	N 39 E 37	S 40 E 43	S 58 E 21	N 22 W 59	S 45 W 56
25	S 51 E 57	N 59 E 38	S 24 E 38	N 56 E 20	N 14 W 56	S 06 W 60
$27^1/_2$	S 43 E 48	N 67 E 38	S 40 E 47	N 55 E 26	N 36	S 16 W 25
30	S 40 E 67	N 81 E 38	S 44 E 46	N 54 E 28	N 06 E 31	S 17 W 25

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	**17** 3^{48} a	**17** 7^{48} a	**17** 11^{38} a	**17** 3^{52} p	**17** 7^{38} p	**17** 11^{48} p	**26** 3^{40} a	**26** 7^{38} a	**26** 11^{48} a	**26** 3^{49} p	**26** 7^{48} p	**26** 11^{38} p
$2^1/_2$	S 42 E 47	N 38 W 50	N 22 W 33	S 68 E 46	N 83 W 39	N 29 W 41	N 33 W 30	0	S 08 E 69	N 59 W 51	N 47 E 36	S 33 E 69
5	S 54 E 53	N 33 W 32	N 24 W 41	S 63 E 39	N 68 W 39	N 32 W 42	N 36 W 37	0	S 10 E 68	N 30 W 50	N 10 E 36	S 30 E 77
10	S 56 E 53	N 54 W 36	N 55 E 22	S 51 E 35	N 29 W 32	N 35 W 38	N 37 W 37	0	S 19 E 63	N 59 W 44	N 12 E 38	S 38 E 60
15	S 27 E 52	N 44 W 38	S 12 E 29	S 16 E 35	N 44 W 35	N 44 W 35	N 29 W 39	S 59 E 25	S 22 E 70	N 64 W 54	N 17 E 47	S 34 E 64
20	S 04 W 49	N 01 E 38	S 01 E 30	S 06 E 23	N 60 W 41	N 46 W 31	N 51 W 40	S 26 E 27	S 25 E 68	N 39 W 46	N 16 E 38	S 36 E 62
25	S 06 E 48	N 14 E 38	S 37 W 28	S 49 E 22	N 64 W 46	N 57 W 24	N 45 W 43	S 15 E 37	S 36 E 58	N 29 W 45	S 17 W 12	S 46 E 40
$27^1/_2$	S 04 E 43	N 14 E 39	S 43 W 28	S 57 E 16	N 58 W 46	N 68 W 22	N 36 W 46	S 04 W 37	S 46 E 44	N 27 W 33	S 63 W 20	S 44 E 26
30	S 29 E 41	N 37	S 29 W 27	S 75 E 13	N 53 W 47	N 73 W 19	N 40 W 42	S 35	S 50 E 44	N 37 W 32	S 62 W 20	S 53 E 15
	18 3^{38} a	**18** 7^{45} a	**18** 11^{48} a	**18** 3^{44} p	**18** 7^{44} p	**18** 11^{38} p	**27** 3^{45} a	**27** 7^{38} a	**27** 11^{44} a	**27** 3^{44} p	**27** 7^{38} p	**27** 11^{48} p
$2^1/_2$	S 36 E 44	S 59 W 23	N 34 W 38	S 69 E 26	N 33 W 20	N 34 W 55	N 61 W 39	N 28 W 37	S 28 E 69	N 83 W 49	N 53 W 33	S 23 E 81
5	S 33 E 51	S 40 W 23	N 36 W 37	S 65 E 26	N 35 W 28	N 35 W 54	N 59 W 39	N 26 W 38	S 30 E 74	N 58 W 54	N 41 W 33	S 25 E 74
10	S 33 E 62	S 37 W 39	N 33 W 32	S 64 E 38	N 36 W 27	N 39 W 37	N 48 W 38	N 26 W 43	S 29 E 66	N 56 W 53	N 37 W 32	S 17 E 80
15	S 22 E 67	N 89 W 39	N 36 W 29	S 19 E 38	N 39 W 32	N 09 W 23	N 48 W 32	N 09 W 40	S 20 E 64	N 45 W 47	S 42 E 6	S 15 E 74
20	S 16 E 65	N 78 W 32	S 33 E 6	S 06 W 33	N 43 W 37	N 39 W 22	N 23 W 23	N 44 W 36	S 22 E 53	N 48 W 46	S 39 W 23	S 27 E 72
25	S 17 E 63	N 51 E 25	S 33 E 6	S 04 E 29	N 39 W 41	S 34 E 11	N 31 W 37	N 55 W 31	S 29 E 40	N 44 W 38	S 59 W 32	S 26 E 64
$27^1/_2$	S 14 E 62	N 58 E 35	S 33 E 6	S 05 E 23	N 30 W 43	N 50 W 13	N 18 W 36	N 62 W 31	S 63 E 34	N 45 W 32	S 71 W 32	S 22 E 54
30	S 12 E 48	N 77 E 34	S 24 E 20	S 24 E 23	N 39 W 41	N 62 W 13	N 02 W 36	N 69 W 16	S 39 E 26	N 39 W 23	S 63 W 29	S 26 E 53
	19 3^{48} a	**19** 7^{38} a	**19** 11^{45} a	**19** 3^{44} p	**19** 7^{46} p	**19** 11^{39} p	**28** 3^{38} a	**28** 7^{38} a	**28** 11^{45} a	**28** 3^{42} p	**28** 7^{39} p	**28** 11^{45} p
$2^1/_2$	S 31 E 30	S 32 W 33	N 41 W 39	S 70 E 20	S 33 E 17	N 36 W 57	S 37 W 44	N 49 E 44	S 58 E 76	N 20 W 23	N 24 W 44	S 45 E 76
5	S 58 E 36	S 32 W 39	N 30 W 39	S 57 E 25	S 36 E 23	N 37 W 60	S 84 W 48	N 41 E 39	S 48 E 74	N 71 W 23	N 27 W 44	S 35 E 74
10	S 30 E 39	S 27 W 38	N 29 W 38	S 58 E 30	N 36 W 1	N 34 W 63	S 67 W 50	N 10 W 32	S 39 E 63	N 64 W 23	N 28 W 41	S 37 E 72
15	S 14 E 47	S 24 W 35	N 30 W 23	S 49 E 32	N 70 W 17	N 34 W 61	S 24 W 37	N 37 W 32	S 36 E 61	N 72 W 22	N 24 W 37	S 34 E 60
20	S 04 E 47	S 21 E 25	N 16 W 15	S 36 E 37	N 31 W 17	N 36 W 54	S 22 E 33	N 80 W 33	S 36 E 59	S 82 E 3	N 30 W 31	S 21 E 49
25	S 02 W 46	S 77 E 33	N 16 W 14	S 34 E 40	N 19 W 23	N 30 W 46	N 49 E 13	S 84 W 33	S 42 E 58	N 26 E 17	N 35 W 30	S 09 E 34
$27^1/_2$	S 12 E 37	N 77 E 30	N 19 W 23	S 31 E 43	N 19 W 23	N 20 W 44	N 49 E 13	S 08 W 35	S 44 E 53	N 09 E 28	N 32 W 26	S 41 E 47
30	S 06 W 17	N 75 E 26	N 30 W 14	S 29 E 46	N 26 W 23	N 16 W 36	N 64 E 21	S 06 W 34	S 37 E 46	N 20 E 33	N 37 W 24	S 63 E 32
	20 3^{38} a	**20** 7^{48} a	**20** 11^{48} a	**20** 3^{50} p	**20** 7^{42} p	**20** 11^{45} p	**29** 3^{38} a	**29** 7^{45} a	**29** 11^{38} a	**29** 3^{49} p	**29** 7^{45} p	**29** 11^{40} p
$2^1/_2$	N 07 W 23	S 01 E 46	N 35 W 51	N 12 E 17	S 45 E 46	N 70 W 33	S 20 E 30	N 21 W 33	S 56 E 60	S 23 E 25	N 53 W 39	S 31 E 49
5	0	S 02 E 47	N 42 W 38	N 14 E 23	S 47 E 48	N 60 W 33	S 23 E 33	N 28 W 33	S 47 E 54	S 20 E 33	N 53 W 39	S 33 E 54
10	S 06 E 17	S 01 E 48	N 40 W 40	S 14 W 1	S 50 E 44	N 40 W 38	S 23 E 29	N 33 W 50	S 28 E 53	S 33 E 29	N 51 W 45	S 30 E 58
15	S 06 E 17	S 09 W 47	N 27 W 15	S 14 W 1	S 46 E 54	N 40 W 43	S 01 W 15	N 35 W 49	S 21 E 52	S 58 W 16	N 37 W 49	S 29 E 57
20	S 40 W 16	S 04 W 40	N 17 W 9	S 14 W 1	S 47 E 26	N 40 W 43	N 22 W 5	N 56 W 42	S 10 E 46	N 50 W 34	N 34 W 35	S 38 E 62
25	S 40 W 19	S 38 E 33	N 03 W 9	S 14 W 1	S 45 E 7	N 30 W 42	N 56 W 22	N 69 W 30	S 34 E 44	N 37 W 33	N 42 W 19	S 20 E 53
$27^1/_2$	S 44 W 19	S 46 E 25	N 17 W 9	S 14 W 1	S 38 E 7	N 28 W 37	N 38 W 34	N 81 W 30	S 34 E 39	N 21 W 37	N 36 W 19	S 12 E 44
30	S 30 W 19	S 50 E 20	N 17 W 9	S 14 W 1	S 45 E 7	N 28 W 37	N 26 W 38	N 63 W 30	S 31 E 32	N 01 W 38	N 50 W 19	S 35 E 36
	21 3^{38} a	**21** 7^{38} a	**21** 11^{48} a	**21** 3^{43} p	**21** 7^{48} p	**21** 11^{39} p	**30** 3^{38} a	**30** 7^{48} a	**30** 11^{39} a	**30** 3^{48} p	**30** 7^{38} p	**30** 11^{45} p
$2^1/_2$	N 34 W 37	S 38 E 39	S 85 W 23	N 33 W 38	N 88 E 33	0	S 27 W 47	S 87 W 39	S 33 E 57	S 37 W 39	N 73 W 39	S 27 E 69
5	N 33 W 38	S 47 E 39	S 86 W 30	N 44 W 36	N 83 E 39	0	S 37 W 49	N 75 W 39	S 36 E 56	S 50 W 51	N 65 W 44	S 12 E 68
10	N 36 W 40	S 31 E 43	N 64 W 22	N 34 W 38	S 70 E 41	N 63 W 30	S 37 W 47	N 42 W 38	S 47 E 64	S 44 W 55	N 31 W 43	S 14 E 75
15	N 35 W 36	S 31 E 37	N 02 E 17	N 20 W 21	S 38 E 38	N 45 W 39	S 02 W 43	N 50 W 37	S 35 E 69	S 47 E 39	S 54 E 9	S 41 E 74
20	N 36 W 31	S 31 E 36	N 03 E 16	N 19 W 9	S 38 E 33	N 18 W 39	S 03 W 36	N 78 W 23	S 32 E 70	S 45 E 38	S 54 E 9	S 44 E 71
25	S 34 E 10	S 31 E 31	N 46 E 17	N 29 W 9	S 46 E 29	N 01 W 38	S 70 E 33	S 68 W 23	S 15 E 65	S 60 E 38	S 09 E 28	S 43 E 69
$27^1/_2$	S 34 E 10	S 38 E 30	N 38 E 20	N 33 W 9	S 44 E 19	N 02 E 40	N 75 E 24	S 69 W 19	S 11 E 59	S 84 E 39	S 12 E 28	S 63 E 60
30	S 34 E 10	S 39 E 27	N 35 E 20	S 36 E 7	S 34 E 19	N 01 W 37	N 84 E 30	S 53 W 20	S 16 E 62	S 88 E 39	S 16 E 28	S 65 E 59
	22 3^{45} a	**22** 7^{39} a	**22** 11^{48} a	**22** 3^{39} p	**22** 7^{38} p	**22** 11^{48} p	**1** 3^{40} a	**1** 7^{38} a	**1** 11^{45} a	**1** 3^{48} p	**1** 7^{48} p	**1** 11^{39} p
$2^1/_2$	N 57 W 39	S 31 E 33	S 21 E 30	N 43 W 37	E 33	N 25 E 28	S 16 E 60	N 78 W 33	S 21 E 76	S 10 W 51	N 61 W 39	S 13 E 67
5	N 46 W 39	S 29 E 36	S 24 E 25	N 45 W 37	N 86 E 33	N 24 E 28	S 13 E 67	N 01 E 39	S 34 E 74	S 12 W 54	N 85 W 51	S 13 E 75
10	N 36 W 38	S 39 E 40	S 12 E 22	N 42 W 39	S 78 E 36	N 06 W 16	S 16 E 70	N 77 W 42	S 39 E 63	S 17 W 68	N 83 W 49	S 19 E 73
15	N 25 W 38	S 36 E 43	N 16 W 3	N 43 W 37	S 74 E 38	N 08 W 22	S 24 E 61	S 75 W 32	S 37 E 51	S 38 E 58	S 80 W 36	S 16 E 70
20	N 36 W 38	S 37 E 46	N 16 W 3	N 31 W 37	S 63 E 40	N 18 W 32	S 29 E 50	S 06 W 30	S 54 E 60	S 49 E 46	S 80 W 35	S 22 E 58
25	N 24 W 36	S 40 E 47	N 16 W 3	N 33 W 30	S 61 E 38	N 26 W 32	S 53 E 40	S 07 W 33	S 44 E 58	S 80 E 49	E 15	S 21 E 57
$27^1/_2$	N 24 W 30	S 23 E 48	N 16 W 3	N 32 W 24	S 36 E 31	N 21 W 32	S 50 E 37	S 05 W 33	S 30 E 66	N 83 E 50	S 74 E 49	S 26 E 57
30	N 48 W 26	S 26 E 49	N 16 W 3	N 31 W 10	S 40 E 26	N 21 W 31	S 68 E 24	S 02 E 22	S 48 E 57	N 80 E 56	N 78 E 72	S 30 E 45
	23 3^{38} a	**23** 7^{45} a	**23** 11^{44} a	**23** 3^{45} p	**23** 7^{39} p	**23** 11^{38} p	**2** 3^{45} a	**2** 7^{40} a	**2** 11^{38} a	**2** 3^{48} p	**2** 7^{38} p	**2** 11^{48} p
$2^1/_2$	N 13 W 50	S 78 E 39	S 45 E 33	N 18 W 26	0	0	S 16 E 85	N 23 W 33	S 53 E 33	S 05 E 39	N 42 W 39	N 72 W 23
5	N 12 W 43	S 77 E 44	S 59 E 37	N 19 W 39	0	0	S 05 E 83	N 35 W 37	S 80 E 33	S 03 E 47	N 46 W 51	0
10	N 26 W 49	N 88 E 47	S 56 E 32	N 20 W 50	S 62 E 28	0	S 10 E 79	N 04 E 29	S 31 E 36	S 05 E 48	N 36 W 59	N 08 W 23
15	N 26 W 49	N 89 E 47	S 61 E 32	N 14 W 59	S 36 E 33	N 12 W 23	S 16 E 68	S 27 E 6	S 29 E 43	S 18 E 47	N 54 W 47	N 85 W 23
20	N 27 W 50	N 89 E 46	N 50 W 8	N 15 W 57	S 39 E 32	N 05 W 28	S 32 E 66	S 34	S 06 E 43	S 24 E 46	N 23 W 19	S 68 W 27
25	N 29 W 48	S 82 E 49	N 01 E 18	N 29 W 45	S 35 E 32	N 24 E 27	S 44 E 65	S 14 E 38	S 18 E 46	S 09 W 42	N 20 E 21	S 58 W 27
$27^1/_2$	N 30 W 48	S 84 E 48	N 11 W 19	N 26 W 44	S 53 E 31	N 14 E 27	S 67 E 57	S 26 E 42	S 28 E 49	S 19 W 42	N 40 E 24	S 70 W 22
30	N 30 W 46	S 72 E 46	N 21 W 30	N 48 W 32	S 49 E 36	N 02 E 32	S 52 E 73	S 33 E 46	S 33 E 49	S 23 W 39	N 43 E 24	S 60 W 16
	24 3^{48} a	**24** 7^{38} a	**24** 11^{38} a	**24** 3^{44} p	**24** 7^{45} p	**24** 11^{39} p	**3** 3^{38} a	**3** 7^{40} a	**3** 11^{38} a	**3** 3^{38} p	**3** 7^{39} p	**3** 11^{38} p
$2^1/_2$	N 17 E 39	N 57 E 33	S 33 E 33	N 41 W 40	S 43 E 23	S 46 E 38	S 23 E 60	N 22 E 20	N 05 E 41	N 89 E 39	N 31 W 39	N 33 W 57
5	N 23 W 60	S 73 E 39	S 34 E 33	N 38 W 40	S 34 E 23	S 43 E 41	S 23 E 77	N 40 E 36	N 07 E 42	S 70 E 39	N 32 W 46	N 30 W 42
10	N 25 W 68	S 64 E 32	S 20 W 29	N 35 W 43	N 34 W 1	S 49 E 40	S 14 E 57	N 33 E 37	N 04 E 32	S 39 E 38	N 32 W 52	N 54 W 28
15	N 34 W 66	S 58 E 26	S 06 E 29	N 40 W 43	S 42 E 23	S 50 E 39	S 17 E 50	N 27 E 33	S 12 W 7	S 20 E 33	N 34 W 54	N 61 W 21
20	N 30 W 64	S 36 E 21	S 18 W 26	N 44 W 46	S 26 E 33	S 47 E 34	S 25 E 36	N 09 W 18	S 04 W 35	S 23 E 32	N 31 W 57	N 65 W 21
25	N 35 W 61	S 41 E 20	S 21 W 26	N 42 W 47	S 12 E 32	S 47 E 30	S 34 E 30	S 85 E 29	S 06 W 41	S 23 E 31	N 38 W 52	S 80 W 14
$27^1/_2$	N 34 W 56	S 44 E 31	S 05 E 20	N 40 W 48	S 11 E 21	S 47 E 23	S 35 E 30	S 82 E 29	S 09 E 39	S 56 E 28	N 36 W 51	N 82 W 22
30	N 27 W 46	S 34 E 31	N 13 W 8	N 36 W 48	S 35 E 21	S 65 E 9	S 54 E 24	S 76 E 30	S 12 E 33	S 33 E 27	N 36 W 54	N 68 W 21
	25 3^{38} a	**25** 7^{48} a	**25** 11^{44} a	**25** 3^{45} p	**25** 7^{44} p	**25** 11^{45} p	**4** 3^{48} a	**4** 7^{38} a	**4** 11^{44} a	**4** 3^{44} p	**4** 7^{39} p	**4** 11^{44} p
$2^1/_2$	N 35 W 26	S 04 W 39	S 16 E 60	N 23 W 39	S 23 E 33	S 17 E 58	S 61 E 32	N 23 W 23	N 07 W 64	N 82 E 69	N 10 W 33	N 33 W 49
5	N 33 W 26	S 03 W 44	S 13 E 60	N 22 W 51	S 20 E 33	S 18 E 66	S 48 E 34	N 33 W 30	N 18 W 50	N 79 E 68	N 09 E 43	N 30 W 56
10	N 24 W 33	S 04 W 48	S 28 E 63	N 34 W 49	S 20 E 36	S 15 E 64	S 16 E 38	N 34 W 33	N 09 W 37	N 77 E 58	N 03 E 48	N 34 W 64
15	N 54 W 43	S 10 W 48	S 23 E 56	N 44 W 58	S 23 E 41	S 13 E 71	S 16 E 37	N 31 W 38	N 05 W 36	S 63 E 34	N 03 E 48	N 34 W 53
20	N 57 W 49	S 10 E 46	S 21 E 62	N 65 W 46	S 20 E 43	S 32 E 69	S 02 W 37	N 34 W 20	N 30 W 20	S 12 E 23	N 18 W 49	N 33 W 43
25	N 48 W 48	S 09 E 46	S 23 E 71	N 58 W 33	S 22 E 48	S 43 E 58	S 01 E 41	N 13 W 31	N 44 W 21	S 86 W 18	N 34 W 50	N 35 W 42
$27^1/_2$	N 14 W 47	S 25 E 48	S 20 E 70	N 88 W 18	S 17 E 50	S 45 E 58	S 02 W 36	N 08 W 31	N 38 W 20	N 16 W 15	N 41 W 49	N 39 W 31
30	N 20 W 51	S 36 E 48	S 22 E 69	N 84 W 17	S 18 E 51	S 52 E 47	S 07 W 27	N 03 E 28	N 52 W 31	N 13 W 14	N 41 W 49	N 56 W 13

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

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Meter	5 3³⁸ a	5 7⁴⁸ a	5 11⁴⁴ a	5 3⁵⁰ p	5 7³⁸ p	5 11⁴⁴ p	14 3⁴⁵ a	14 7³⁸ a	14 11⁴⁴ a	14 3³⁸ p	14 7³⁸ p	14 11⁴⁴ p
2½	N 79 E 39	N 82 E 33	N 24 W 53	N 02 E 36	0	N 29 W 51	S 01 E 33	N 63 W 51	S 50 E 23	S 13 E 25	S 76 W 48	S 23 E 20
5	S 52 E 39	S 54 E 22	N 26 W 54	N 07 E 33	0	N 39 W 61	S 03 E 33	N 62 W 54	S 58 E 36	S 16 E 20	S 72 W 47	S 22 E 33
10	S 80 E 38	S 61 E 22	N 22 W 59	N 33 E 38	N 03 W 23	N 43 W 60	S 04 E 32	N 57 W 49	S 66 E 42	S 14 E 13	S 74 W 48	S 20 E 32
15	S 70 E 36	N 63 W 2	N 24 W 57	N 49 E 39	N 82 W 23	N 43 W 60	N 02 W 6	N 34 W 36	S 57 E 38	N 15 W 2	S 74 W 50	S 23 E 36
20	N 72 E 31	N 01 W 33	N 25 W 61	N 26 W 38	N 52 W 41	N 38 W 51	N 29 E 24	N 36 W 35	S 47 E 47	N 21 W 18	S 64 W 49	S 37 E 36
25	S 25 E 20	N 13 W 33	N 18 W 59	N 43 W 37	N 22 W 48	N 39 W 43	N 43 E 28	N 36 W 29	S 34 E 48	N 16 W 30	S 56 W 47	S 33 E 39
27½	S 14 E 15	N 04 W 39	N 14 W 53	N 79 W 22	N 34 W 49	N 38 W 40	N 41 E 23	N 12 W 20	S 34 E 49	N 23 W 33	S 52 W 46	S 44 E 43
30	S 06 W 22	N 14 W 43	N 19 W 48	S 10 W 10	N 38 W 49	N 38 W 34	N 28 E 23	N 15 E 11	S 36 E 49	N 36 W 33	S 56 W 45	S 42 E 42
	6 3⁴⁰ a	**6 7³⁸ a**	**6 11⁴⁸ a**	**6 3⁴⁴ p**	**6 7⁴⁸ p**	**6 11³⁹ p**	**15 3³⁸ a**	**15 7¹⁸ a**	**15 11⁴⁸ a**	**15 3¹⁸ p**	**15 7³⁸ p**	**15 11⁴⁸ p**
2½	N 25 W 37	S 46 E 28	N 53 W 30	N 25 W 38	0	N 29 W 47	S 15 E 47	S 43 E 36	N 77 E 23	S 55 E 33	N 53 W 51	N 05 E 28
5	N 23 W 38	S 33 E 33	N 44 W 33	N 33 W 47	0	N 39 W 50	S 02 E 46	S 55 E 36	S 53 E 30	S 56 E 27	N 45 W 50	N 06 E 30
10	N 34 W 36	S 30 E 32	N 46 W 39	N 25 W 48	N 51 E 17	N 38 W 49	S 03 W 47	S 44 E 36	S 50 E 22	S 58 E 22	N 25 W 53	S 78 E 17
15	N 30 W 32	S 14 W 22	N 33 W 38	N 24 W 49	N 71 E 17	N 44 W 49	S 11 E 31	S 31 E 26	S 38 E 32	S 57 E 11	N 16 W 58	S 50 E 28
20	N 43 W 31	S 22 W 16	N 15 W 38	N 22 W 42	S 70 W 2	N 44 W 46	S 24 E 31	S 30 E 20	S 44 E 35	N 55 W 3	N 18 W 56	S 24 E 30
25	N 46 W 25	S 22 E 15	N 17 W 31	N 89 W 19	S 70 W 2	N 50 W 46	S 43 E 24	S 05 W 21	S 21 E 31	N 54 E 17	N 15 W 44	S 08 E 36
27½	N 48 W 23	S 55 E 15	N 17 W 30	N 84 W 15	S 70 W 2	N 50 W 44	S 67 E 20	S 06 E 21	S 21 E 35	N 50 E 23	N 12 W 44	S 05 E 36
30	N 60 W 14	S 55 E 15	N 16 W 24	N 86 W 15	S 70 W 2	N 49 W 41	S 74 E 20	S 04 E 18	S 26 E 35	N 60 E 23	N 14 W 31	S 06 E 36
	7 3⁴⁴ a	**7 7³⁹ a**	**7 11⁴⁴ a**	**7 3⁴⁸ p**	**7 7³⁸ p**	**7 11⁴⁸ p**	**16 3³⁹ a**	**16 7³⁸ a**	**16 11⁴⁸ a**	**16 3⁴⁰ p**	**16 7⁴⁸ p**	**16 11⁴⁸ p**
2½	N 59 W 53	S 40 E 33	N 32 W 28	N 33 W 51	S 83 E 32	N 42 W 44	S 33 E 44	N 17 W 17	N 03 E 23	S 45 E 41	N 63 W 28	N 53 W 30
5	N 55 W 63	S 44 E 33	N 34 W 33	N 33 W 45	S 67 E 39	N 31 W 44	S 32 E 47	N 19 W 17	N 39 E 23	S 46 E 47	N 55 W 27	N 51 W 39
10	N 54 W 61	S 31 E 38	N 30 W 37	N 33 W 37	S 50 E 38	N 15 W 46	S 24 E 48	N 32 W 23	S 75 E 23	S 46 E 47	N 53 W 27	N 53 W 10
15	N 44 W 54	S 29 E 40	N 29 W 37	N 33 W 23	S 61 E 37	N 15 W 46	S 22 E 49	N 17 W 27	S 28 E 28	S 22 E 49	N 34 W 29	S 51 E 6
20	N 43 W 44	S 30 E 43	N 33 W 37	N 50 W 23	S 56 E 36	N 09 W 46	S 26 E 48	N 11 W 27	S 32 E 27	S 26 E 37	N 12 W 36	S 51 E 6
25	N 33 W 31	S 32 E 45	N 44 W 31	N 57 W 13	S 24 E 31	N 19 W 47	S 24 E 46	N 33 E 22	S 21 E 29	S 45 E 25	N 02 W 35	S 51 E 6
27½	N 37 W 21	S 33 E 46	N 70 W 12	S 61 W 18	S 36 E 31	N 20 W 47	S 21 E 46	N 61 E 19	S 23 E 29	S 74 E 23	N 04 W 36	S 50 W 12
30	N 14 W 13	S 30 E 48	S 34 E 10	S 54 W 19	S 36 E 30	N 20 W 47	S 22 E 41	N 39 E 19	S 17 E 21	N 74 E 19	N 04 W 36	S 61 W 12
	8 3³⁸ a	**8 7⁴⁰ a**	**8 11³⁹ a**	**8 4⁴⁴ p**	**8 7⁴⁰ p**	**8 11³⁹ p**	**17 3³⁸ a**	**17 7³⁸ a**	**17 11³⁸ a**	**17 3¹⁸ p**	**17 7⁴⁸ p**	**17 11⁴⁸ p**
2½	N 03 W 78	S 79 E 39	N 29 W 28	N 12 E 46	S 80 E 37	N 11 W 33	S 19 E 53	S 20 W 17	N 13 E 23	S 52 E 51	S 17 W 23	N 53 W 44
5	N 21 W 68	S 67 E 44	N 33 W 33	N 43 W 60	S 74 E 38	N 26 W 44	S 17 E 61	S 24 W 17	0	S 53 E 50	N 87 W 23	N 53 W 41
10	N 18 W 64	S 84 E 38	N 40 W 33	N 37 W 68	S 61 E 40	N 24 W 43	S 19 E 69	S 22 W 13	S 48 E 17	S 32 E 49	N 24 W 20	N 15 W 18
15	N 24 W 55	S 71 E 31	N 27 W 38	N 46 W 75	S 64 E 40	N 26 W 41	S 21 E 72	N 24 E 1	S 30 E 23	S 20 E 47	N 16 W 22	N 20 W 30
20	N 21 W 40	S 54 E 19	N 08 W 40	N 45 W 60	S 87 E 43	N 20 W 46	S 18 E 65	N 24 E 1	S 33 E 27	S 20 E 42	N 09 W 33	N 29 W 30
25	N 18 W 39	S 08 E 32	N 12 W 40	N 48 W 41	S 84 E 36	N 25 W 49	S 18 E 52	N 57 E 17	S 34 E 29	S 46 E 38	N 07 W 36	N 12 W 24
27½	N 22 W 28	S 06 E 31	N 14 W 43	N 43 W 41	N 86 E 24	N 19 W 49	S 21 E 42	N 51 E 25	S 27 E 27	S 44 E 33	N 35 W 34	N 54 W 24
30	N 24 W 28	S 06 E 31	N 16 W 46	N 74 W 28	N 70 W 12	N 17 W 48	S 24 E 32	N 35 E 33	S 26 E 21	S 48 E 24	N 01 W 33	N 54 W 27
	9 3⁴⁸ a	**9 7³⁸ a**	**9 11⁴⁴ a**	**9 3⁴⁴ p**	**9 7⁴⁰ p**	**9 11⁴⁴ p**	**18 3³⁹ a**	**18 7³⁹ a**	**18 11⁴⁴ a**	**18 3⁴² p**	**18 7³⁹ p**	**18 11⁴⁸ p**
2½	N 25 W 60	S 03 E 23	N 50 W 25	N 30 W 73	N 04 E 37	N 51 W 38	S 30 E 33	S 18 E 39	N 35 W 30	S 73 E 36	S 40 E 30	N 62 W 50
5	N 31 W 77	S 13 E 30	N 39 W 33	N 27 W 76	N 04 W 41	N 46 W 38	S 33 E 44	S 18 E 38	N 36 W 33	S 77 E 39	S 43 E 25	N 53 W 38
10	N 29 W 75	S 05 E 22	N 45 W 24	N 28 W 75	N 03 W 48	N 43 W 40	S 35 E 49	S 16 E 29	N 33 W 29	S 41 E 48	N 42 W 3	N 50 W 30
15	N 28 W 73	S 06 E 22	N 45 W 27	N 29 W 67	N 03 W 49	N 47 W 36	S 31 E 49	S 09 E 32	S 34 E 5	S 35 E 50	N 42 W 3	N 28 W 30
20	N 31 W 68	S 03 E 22	N 44 W 21	N 30 W 58	N 06 W 38	N 51 W 31	S 24 E 46	S 05 W 18	S 34 E 5	S 36 E 50	N 05 W 18	N 20 W 27
25	N 46 W 65	S 35 E 27	N 12 W 24	N 28 W 49	N 05 W 30	N 45 W 31	S 17 E 42	S 34 E 17	S 13 E 19	S 30 E 48	N 30	N 12 W 30
27½	N 46 W 64	S 34 E 32	N 14 W 26	N 05 W 40	N 40 E 18	N 35 W 24	S 03 E 37	S 68 E 15	S 09 E 27	S 33 E 36	N 04 W 33	N 13 W 44
30	N 44 W 63	S 67 E 32	N 14 W 26	N 01 W 28	N 80 E 13	N 31 W 22	S 15 E 34	N 84 E 16	S 05 E 29	S 46 E 31	N 33	N 15 W 37
	10 3³⁹ a	**10 7⁴⁸ a**	**10 11⁴⁴ a**	**10 3⁴⁴ p**	**10 7³⁸ p**	**10 11⁴⁴ p**	**19 3⁴⁸ a**	**19 7³⁸ a**	**19 11⁴⁴ a**	**19 3³⁸ p**	**19 7³⁹ p**	**19 11⁴⁸ p**
2½	N 09 W 48	0	S 23 E 69	N 52 W 50	0	S 23 E 49	S 25 E 28	S 28 E 51	N 70 W 23	S 42 E 20	S 09 E 44	N 19 W 10
5	N 42 W 67	0	S 27 E 50	N 62 W 58	N 33 W 23	S 21 E 49	S 35 E 28	S 20 E 54	N 63 W 28	S 43 E 30	S 38 E 51	N 21 W 34
10	N 42 W 73	0	S 28 E 48	N 69 W 62	N 43 W 13	S 25 E 50	S 36 E 30	S 15 E 37	N 67 W 16	S 42 E 33	S 33 E 51	N 11 W 36
15	N 22 W 71	N 13 W 14	S 22 E 46	N 66 W 56	N 10 E 13	S 21 E 50	S 44 E 29	S 13 E 36	N 65 W 22	S 32 E 36	S 35 E 48	N 14 W 30
20	N 34 W 72	N 18 W 23	S 17 E 33	N 50 W 58	S 34 E 23	S 24 E 48	S 09 E 27	S 04 E 31	N 56 W 16	S 34 E 39	S 39 E 37	N 16 W 27
25	N 39 W 69	N 41 W 28	S 17 E 33	N 50 W 46	S 23 E 33	S 23 E 48	S 11 E 26	S 51 E 21	S 59 E 4	S 32 E 39	S 57 E 35	N 12 W 24
27½	N 34 W 61	N 39 W 28	S 16 E 33	N 38 W 47	S 18 E 36	S 25 E 49	S 26 E 25	S 63 E 13	S 59 E 4	S 30 E 41	S 32 E 24	N 39 E 6
30	N 45 W 55	N 33 W 22	S 11 E 33	N 28 W 46	S 13 E 33	S 26 E 48	S 23 E 23	S 60 E 12	S 59 E 4	S 29 E 42	S 40 E 24	S 15 E 19
	11 3³⁹ a	**11 7³⁸ a**	**11 11⁴⁸ a**	**11 3⁴⁴ p**	**11 7⁴⁸ p**	**11 11³⁹ p**	**20 3⁴⁸ a**	**20 7⁴⁸ a**	**20 11⁴⁴ a**	**20 3⁴⁸ p**	**20 7³⁹ p**	**20 11⁴⁸ p**
2½	N 36 W 33	N 13 W 44	S 76 E 44	N 33 W 60	N 35 W 39	S 18 E 39	N 27 W 17	S 13 E 58	N 13 W 33	N 22 E 30	S 53 E 78	N 07 E 24
5	N 39 W 38	N 03 W 39	S 76 E 48	N 36 W 50	N 48 W 50	S 24 E 36	N 43 W 25	S 28 E 66	N 10 W 38	S 22 W 1	S 53 E 68	N 05 W 16
10	N 45 W 38	N 17 W 38	S 70 E 46	N 40 W 53	N 40 W 49	S 25 E 47	S 25 W 33	S 34 E 73	N 12 W 39	S 22 W 1	S 47 E 66	N 13 W 46
15	N 46 W 40	N 23 W 38	S 71 E 45	N 33 W 51	N 28 W 49	S 23 E 49	N 51 E 2	S 32 E 66	N 08 W 31	S 30 E 23	S 47 E 55	N 17 W 48
20	N 43 W 43	N 02 E 25	S 27 W 34	N 21 W 56	N 30 W 48	S 23 E 46	S 12 W 39	S 34 E 64	N 11 E 13	S 32 E 30	S 46 E 50	N 16 W 46
25	N 34 W 46	S 81 W 33	S 04 W 29	N 12 W 55	N 40 W 38	S 19 E 37	S 04 W 35	S 38 E 57	S 13 E 23	S 15 E 30	S 49 E 29	N 13 W 50
27½	N 24 W 47	N 87 W 26	S 04 E 24	N 11 W 48	N 65 W 29	S 23 E 32	S 09 W 38	S 51 E 46	S 27 E 35	S 30	S 50 E 28	N 10 W 36
30	N 27 W 47	S 80 W 18	S 14 W 17	N 03 W 43	N 70 W 22	S 28 E 29	S 16 E 35	S 35 E 45	S 30 E 35	S 04 E 29	S 58 E 22	N 09 W 40
	12 3⁴⁰ a	**12 7³⁸ a**	**12 11⁴⁸ a**	**12 3⁴² p**	**12 7³⁸ p**	**12 11⁴⁸ p**	**21 3³⁸ a**	**21 7⁴⁸ a**	**21 11⁴⁸ a**	**21 3⁴⁴ p**	**21 7⁴⁸ p**	**21 11⁴⁸ p**
2½	N 38 W 40	N 43 W 44	S 26 E 39	N 88 W 32	N 41 W 36	S 35 E 60	N 20 W 41	S 41 E 64	N 60 W 26	N 33 W 39	S 75 E 34	S 83 E 54
5	N 46 W 47	N 46 W 47	S 20 E 39	N 83 W 39	N 88 W 39	S 37 E 69	N 23 W 41	S 27 E 56	N 55 W 32	N 45 W 47	S 70 E 51	
10	N 42 W 47	N 44 W 48	S 25 E 50	N 54 W 43	N 47 W 44	S 33 E 67	N 24 W 40	S 36 E 55	N 51 W 31	N 43 W 43	S 49 E 49	N 23 W 36
15	N 37 W 47	N 45 W 47	S 42 E 59	N 25 W 43	N 41 W 45	S 20 E 63	N 25 W 43	S 33 E 47	N 10 W 31	N 33 W 31	S 27 E 48	N 29 W 36
20	N 38 W 48	N 47 W 42	S 22 E 51	N 24 W 37	N 47 W 46	S 26 E 72	N 33 W 41	S 25 E 45	N 11 E 38	N 39 W 25	S 33 E 51	N 28 W 44
25	N 43 W 47	N 46 W 36	S 48 E 33	N 10 W 36	N 47 W 42	S 34 E 70	N 34 W 36	S 40 E 32	N 09 E 35	N 83 W 20	S 38 E 50	N 20 W 41
27½	N 58 W 42	N 48 W 29	S 30 E 33	N 06 E 37	N 21 W 35	S 33 E 50	N 30 W 30	S 20 E 26	N 19 E 32	S 68 W 22	S 10 E 33	N 01 W 36
30	N 41 W 36	N 47 W 11	S 41 E 33	N 10 E 31	N 06 E 35	S 34 E 50	N 37 W 20	S 25 E 26	N 24 E 32	N 86 W 25	S 25 E 33	N 01 E 30
	13 3³⁹ a	**13 7⁴⁰ a**	**13 11⁴⁸ a**	**13 3⁴⁴ p**	**13 7³⁹ p**	**13 11³⁹ p**	**22 3³⁸ a**	**22 7³⁹ a**	**22 11⁴¹ a**	**22 3⁴⁴ p**	**22 7⁴⁸ p**	**22 11⁴⁸ p**
2½	N 41 W 39	N 05 W 42	S 38 E 44	N 36 W 17	N 35 W 47	S 55 E 36	N 41 W 39	S 38 E 39	0	N 46 W 47	N 82 E 30	N 42 E 23
5	N 45 W 33	N 23 W 53	S 46 E 50	N 33 W 30	N 38 W 48	S 53 E 39	N 47 W 42	S 36 E 48	N 83 E 14	N 46 W 48	N 35 E 31	N 11 W 25
10	N 47 W 32	N 18 W 57	S 43 E 49	N 34 W 25	N 36 W 49	S 53 E 46	N 38 W 41	S 38 E 47	0	N 45 W 49	S 68 E 36	N 21 W 25
15	N 50 W 35	N 20 W 59	S 55 E 49	N 36 W 32	N 34 W 48	S 42 E 47	N 39 W 49	S 44 E 50	0	N 32 W 47	S 57 E 43	N 30 W 29
20	N 60 W 20	N 24 W 52	S 50 E 49	N 16 W 42	N 32 W 48	S 41 E 49	N 26 W 38	S 40 E 57	N 07 E 23	N 34 W 40	S 44 E 43	N 32 W 27
25	S 84 W 38	N 40 W 44	S 37 E 47	N 09 W 46	N 36 W 47	S 37 E 47	N 33 W 18	S 43 E 61	N 23 E 23	N 35 W 29	S 28 E 43	N 26 W 26
27½	S 63 W 38	N 58 W 40	S 28 E 41	N 06 W 46	N 37 W 45	S 36 E 47	N 86 W 10	S 43 E 62	N 12 E 28	N 35 W 19	S 38	N 27 W 30
30	S 71 W 45	N 75 W 33	S 25 E 36	N 06 W 47	N 39 W 44	S 34 E 47	S 42 E 13	S 41 E 61	N 09 E 29	N 30 W 4	S 03 W 31	N 18 W 41

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	**23** 3^{38} a	**23** 7^{44} a	**23** 11^{48} a	**23** 3^{48} p	**23** 7^{44} p	**23** 11^{48} p	**1** 3^{39} a	**1** 7^{48} a	**1** 11^{48} a	**1** 3^{48} p	**1** 7^{48} p	**1** 11^{48} p
2½	N 25 W 47	S 18 E 17	0	N 12 W 55	S 77 E 33	0	S 03 E 75	N 80 W 55	S 42 W 17	S 03 E 78	N 78 W 42	0
5	N 35 W 50	S 45 E 36	0	N 16 W 50	S 66 E 33	0	S 03 W 77	N 59 W 60	S 54 E 33	S 11 E 76	S 63 W 33	0
10	N 33 W 49	S 55 E 42	S 14 W 39	N 26 W 49	S 70 E 36	0	S 04 E 69	N 64 W 61	N 12 E 23	S 13 E 66	S 88 W 22	N 45 W 33
15	N 35 W 49	S 46 E 48	S 19 W 37	N 10 W 67	S 68 E 36	0	S 15 E 51	N 38 W 53	S 12 E 33	S 38 E 64	N 11 E 44	S 89 W 37
20	N 31 W 46	S 32 E 47	S 21 W 21	N 10 W 59	S 66 E 37	N 35 W 20	S 20 E 43	N 25 W 41	S 09 E 39	S 41 E 53	N 04 E 48	S 85 W 32
25	N 36 W 36	S 25 E 42	N 18 E 6	N 09 W 52	S 75 E 30	N 22 W 33	S 25 E 37	N 68 E 19	S 41 W 36	S 41 E 41	N 30 E 47	S 77 W 31
27½	N 37 W 29	S 22 E 39	N 18 E 6	N 50 W 43	S 77 E 32	N 11 W 27	S 28 E 34	E 35	S 17 W 35	S 77 E 30	N 21 W 38	S 83 W 31
30	N 39 W 28	S 15 E 37	N 18 E 6	N 44 W 30	S 74 E 35	N 07 E 27	S 26 E 28	S 61 E 46	S 20 W 35	S 79 E 30	N 75 W 31	N 64 W 31
	24 3^{48} a	**24** 7^{39} a	**24** 11^{44} a	**24** 3^{44} p	**24** 7^{39} p	**24** 11^{40} p	**2** 3^{38} a	**2** 7^{44} a	**2** 11^{39} a	**2** 3^{48} p	**2** 7^{38} p	**2** 11^{48} p
2½	N 21 W 39	S 18 E 44	S 03 E 51	N 39 W 49	S 06 E 57	S 10 E 60	S 33 E 85	S 44 W 36	N 09 E 28	S 33 E 64	N 73 W 36	N 43 W 44
5	N 33 W 51	S 15 E 44	S 04 W 61	N 44 W 52	S 14 E 63	S 13 E 67	S 33 E 83	S 64 W 40	N 17 E 25	S 32 E 70	S 87 W 36	N 43 W 57
10	N 33 W 49	S 13 E 43	S 05 W 67	N 36 W 53	S 38 E 65	S 10 E 75	S 21 E 80	S 73 W 42	S 10 W 2	S 29 E 81	S 76 W 38	N 36 W 49
15	N 39 W 52	S 22 E 38	S 02 W 74	N 30 W 58	S 44 E 75	S 10 E 73	S 31 E 68	S 03 W 40	S 10 W 2	S 25 E 64	N 33 E 34	N 07 W 41
20	N 28 W 57	S 20 E 38	S 20 E 56	N 21 W 52	S 36 E 68	S 02 E 66	S 34 E 65	S 63 E 39	N 60 W 17	S 25 E 58	N 37 E 39	N 24 W 39
25	N 31 W 60	S 24 E 37	S 30 E 53	N 13 W 51	S 39 E 68	S 02 W 51	S 34 E 64	S 83 E 39	N 70 W 25	S 07 W 55	N 28 E 47	N 78 W 35
27½	N 18 W 55	S 18 E 30	S 39 E 48	N 12 W 39	S 36 E 69	S 15 E 43	S 33 E 54	N 87 E 42	N 84 W 24	S 04 E 54	N 31 E 47	N 35 W 28
30	N 31 W 43	S 20 E 33	S 46 E 41	N 13 W 31	S 43 E 68	S 21 E 30	S 26 E 53	N 82 E 39	N 81 W 19	S 22 E 36	N 29 E 47	N 41 W 28
	25 3^{48} a	**25** 7^{48} a	**25** 11^{44} a	**25** 3^{48} p	**25** 7^{38} p	**25** 11^{40} p	**3** 3^{48} a	**3** 7^{44} a	**3** 11^{44} a	**3** 3^{45} p	**3** 7^{39} p	**3** 11^{39} p
2½	S 67 W 39	S 33 E 39	S 08 E 60	N 86 W 39	S 13 E 33	S 21 E 85	S 03 E 76	S 06 E 60	S 22 W 36	S 28 E 76	S 16 E 55	N 39 W 33
5	S 88 W 57	S 33 E 51	S 02 E 69	N 77 W 39	S 23 E 33	S 27 E 74	S 14 E 84	S 04 W 69	S 58 W 42	S 34 E 65	S 04 W 60	N 66 W 33
10	S 83 W 51	S 23 E 59	S 13 E 67	N 33 W 38	S 20 E 22	S 34 E 64	S 15 E 80	S 15 W 67	S 37 W 36	S 31 E 64	S 04 W 58	N 81 W 32
15	N 80 E 12	S 28 E 67	S 15 E 65	S 59 E 7	S 29 E 32	S 33 E 72	S 32 E 68	S 10 W 65	S 16 W 29	S 44 E 62	S 62	N 38 W 43
20	S 55 E 22	S 24 E 74	S 39 E 59	N 63 E 33	S 34 E 38	S 34 E 65	S 35 E 66	S 06 E 54	S 28 E 27	S 44 E 69	S 55 E 42	N 02 E 43
25	N 79 E 11	S 36 E 71	S 53 E 43	N 66 E 40	S 10 E 43	S 36 E 58	S 50 E 57	S 67 E 58	S 35 E 29	S 48 E 47	N 67 E 38	N 14 W 43
27½	N 79 E 11	S 36 E 65	S 77 E 32	N 68 E 33	S 08 E 43	S 35 E 51	S 40 E 55	S 73 E 45	S 25 E 21	S 44 E 47	N 63 E 45	N 09 W 27
30	N 79 E 11	S 46 E 61	S 85 E 33	N 64 E 32	S 09 E 43	S 39 E 55	S 32 E 42	S 60 E 44	S 44 E 24	S 61 E 47	N 45 E 47	N 84 W 20
	26 3^{40} a	**26** 7^{48} a	**26** 11^{48} a	**26** 3^{45} p	**26** 7^{48} p	**26** 11^{38} p	**4** 3^{48} a	**4** 7^{48} a	**4** 11^{45} a	**4** 3^{48} p	**4** 7^{45} p	**4** 11^{40} p
2½	N 26 W 33	N 28	S 40 E 51	N 49 W 51	0	S 13 E 69	S 17 E 60	S 08 E 67	N 70 W 39	S 32 E 51	S 13 E 69	S 62 W 48
5	N 34 W 33	N 16 W 28	S 38 E 60	N 61 W 50	N 20 W 33	S 16 E 77	S 05 E 77	S 02 W 75	N 67 W 39	S 45 E 60	S 12 E 68	N 64 W 64
10	N 29 W 38	N 64 W 22	S 40 E 59	N 60 W 49	N 17 W 39	S 12 E 75	S 10 E 75	S 11 E 81	N 89 W 32	S 45 E 44	S 09 E 75	N 50 W 60
15	N 12 W 40	S 11 W 18	S 35 E 42	N 62 W 41	N 16 W 21	S 24 E 73	S 26 E 44	S 37 E 52	N 23 W 22	S 53 E 43	S 02 E 73	N 40 W 62
20	N 17 E 41	S 13 W 18	S 14 E 34	N 40 W 46	S 26 E 6	S 26 E 61	S 20 E 43	S 36 E 49	S 70 E 7	S 27 E 26	S 40 E 53	N 13 W 54
25	N 23 E 41	S 14 E 33	S 20 E 33	N 04 W 47	S 08 W 24	S 31 E 60	S 28 E 43	S 49 E 49	S 84 E 25	S 29 E 34	S 50 E 41	N 17 W 54
27½	N 32 E 42	S 09 E 36	S 38 E 27	N 35	S 16 W 24	S 36 E 59	S 10 E 42	S 53 E 45	S 74 E 34	S 38 E 38	S 63 E 42	N 12 W 44
30	N 52 E 43	S 12 E 36	S 37 E 16	N 34	S 23 W 34	S 36 E 49	S 06 E 42	S 60 E 35	S 66 E 34	S 40 E 40	N 83 E 34	N 05 W 42
	27 3^{38} a	**27** 7^{39} a	**27** 11^{48} a	**27** 3^{48} p	**27** 7^{48} p	**27** 11^{48} p	**5** 3^{38} a	**5** 7^{48} a	**5** 11^{48} a	**5** 3^{45} p	**5** 7^{48} p	**5** 11^{45} p
2½	S 49 W 55	N 30	S 28 E 88	S 84 W 39	N 28 W 39	S 28 E 67	S 62 W 26	S 25 E 92	S 45 W 33	N 33 W 33	S 13 E 76	N 18 W 47
5	S 55 W 50	N 13 E 33	S 33 E 90	S 79 W 39	N 32 W 36	S 41 E 66	S 22 W 32	S 24 E 90	S 53 W 39	N 34 W 33	S 16 E 74	N 36 W 44
10	S 60 W 55	N 76 E 16	S 34 E 82	S 72 W 38	N 04 W 35	S 41 E 73	S 09 W 44	S 23 E 82	S 37 W 32	N 24 W 44	S 13 E 72	N 46 W 38
15	S 68 W 58	S 39 E 26	S 34 E 76	N 76 E 9	S 78 W 33	S 38 E 61	S 42 W 49	S 10 E 79	S 26 W 31	N 40 W 43	S 23 E 60	N 46 W 38
20	S 06 E 31	S 46 E 33	S 29 E 73	N 60 E 29	S 09 W 31	S 24 E 55	S 60 W 36	S 04 E 76	S 40 E 29	S 80 W 32	S 51 E 59	N 14 W 31
25	N 83 E 32	S 34 E 38	S 58 E 67	N 67 E 34	S 09 W 24	S 39 E 48	S 73 W 41	S 19 E 70	S 73 E 30	S 48 W 33	S 41 E 47	N 23 E 31
27½	E 34	S 30 E 41	S 48 E 61	N 59 E 33	S 06 W 24	S 41 E 47	S 63 W 40	S 24 E 65	N 69 E 29	S 12 E 35	S 46 E 47	N 06 E 38
30	N 84 E 41	S 26 E 46	S 32 E 54	N 56 E 35	S 28 W 23	S 24 E 47	S 74 W 35	S 23 E 58	N 72 E 29	S 26 E 35	S 64 E 66	N 20 E 38
	28 3^{38} a	**28** 7^{39} a	**28** 11^{44} a	**28** 3^{48} p	**28** 7^{39} p	**28** 11^{48} p	**6** 3^{40} a	**6** 7^{38} a	**6** 11^{48} a	**6** 3^{48} p	**6** 7^{48} p	**6** 11^{48} p
2½	S 77 W 44	N 13 W 47	S 43 E 66	S 47 W 23	N 35 W 60	S 43 E 47	N 46 W 36	S 23 E 51	N 61 W 33	N 28 W 26	S 31 E 60	N 76 W 28
5	S 79 W 47	N 13 E 36	S 41 E 67	N 87 W 33	N 37 W 65	S 47 E 44	N 37 W 39	S 35 E 69	S 68 W 44	N 23 W 51	S 28 E 60	N 75 W 33
10	N 82 W 43	N 04 E 32	S 44 E 69	S 76 W 27	N 33 W 65	S 55 E 52	N 45 W 46	S 30 E 67	S 74 W 43	N 18 W 53	S 49 E 62	N 87 W 32
15	S 42 W 31	S 26 W 25	S 29 E 67	N 83 W 35	N 25 W 56	S 52 E 53	N 48 W 44	S 28 E 61	S 84 W 41	N 06 W 43	S 46 E 53	N 67 W 21
20	N 80 E 10	S 17 W 27	S 26 E 54	N 77 W 31	N 25 W 47	S 43 E 52	N 61 W 42	S 49 E 44	N 26 W 42	N 18 W 35	S 27 E 37	N 06 W 22
25	N 66 E 26	S 26 W 24	S 30 E 48	N 07 W 21	N 34 W 30	S 32 E 51	N 89 W 37	S 38 E 42	N 22 W 38	N 37 W 26	S 16 E 32	N 05 W 39
27½	N 83 E 40	S 26 W 21	S 38 E 38	N 34 E 30	N 30 W 16	S 20 E 49	W 37	S 33 E 37	N 50 W 38	N 64 W 27	S 08 E 32	N 16 E 44
30	N 83 E 40	S 30 W 18	S 40 E 35	N 41 E 40	S 32 E 23	S 21 E 48	S 76 W 38	S 23 E 18	N 39 W 38	N 74 W 27	S 12 E 32	N 25 E 47
	29 3^{48} a	**29** 7^{38} a	**29** 11^{48} a	**29** 3^{50} p	**29** 7^{38} p	**29** 11^{39} p	**7** 3^{45} a	**7** 7^{38} a	**7** 11^{38} a	**7** 3^{48} p	**7** 7^{39} p	**7** 11^{48} p
2½	S 34 W 28	N 33 W 39	S 67 E 47	S 30 W 17	N 41 W 48	S 43 E 33	N 21 W 39	S 46 E 48	S 41 W 33	N 36 W 76	E 26	0
5	S 47 W 28	N 33 W 33	S 66 E 47	S 28 W 20	N 38 W 49	S 46 E 33	N 17 W 51	S 50 E 49	S 32 W 33	N 33 W 74	N 62 W 34	0
10	S 37 W 27	N 42 W 40	S 73 E 49	N 28 E 1	N 36 W 48	S 46 E 38	N 26 W 59	S 55 E 48	S 18 W 22	N 40 W 63	N 88 E 35	0
15	S 24 W 29	N 37 W 31	S 66 E 51	N 28 E 1	N 38 W 49	S 35 E 37	N 34 W 67	S 48 E 46	N 26 E 4	N 32 W 58	S 80 E 26	N 36 W 23
20	S 17 W 29	N 29 W 25	S 41 E 46	N 70 W 17	N 16 W 30	S 33 E 40	N 33 W 65	S 24 E 43	N 28 E 19	N 31 W 49	S 02 E 27	N 19 W 36
25	N 34 E 7	S 39 E 9	S 32 E 42	N 35 W 25	N 13 W 23	S 28 E 43	N 34 W 54	S 25 E 41	N 14 E 24	N 31 W 48	S 09 E 26	N 18 W 39
27½	N 86 E 39	S 39 E 9	S 28 E 37	N 14 W 28	N 42 W 17	S 31 E 40	N 20 W 30	S 13 E 38	N 25 E 29	N 36 W 40	S 04 E 34	N 16 W 45
30	N 50 E 25	S 39 E 9	S 24 E 34	N 18 W 33	N 57 W 20	S 36 E 30	N 57 W 30	S 12 E 36	N 24 E 33	N 38 W 40	S 05 E 33	N 13 W 48
	30 3^{18} a	**30** 7^{48} a	**30** 11^{44} a	**30** 3^{44} p	**30** 7^{38} p	**30** 11^{39} p	**8** 3^{48} a	**8** 7^{45} a	**8** 11^{45} a	**8** 3^{18} p	**8** 7^{39} p	**8** 11^{38} p
2½	S 08 W 36	N 53 W 39	S 83 E 33	S 22 W 23	N 33 W 42	S 76 E 37	N 15 W 78	N 26 E 39	N 43 W 23	N 33 W 78	N 11 W 42	S 25 W 39
5	S 07 W 36	N 44 W 39	S 88 E 33	S 41 W 23	N 31 W 44	N 87 E 22	N 18 W 76	N 45 E 39	N 42 W 33	N 26 W 68	N 29 E 36	S 23 E 57
10	S 19 W 32	N 52 W 33	S 76 E 29	N 41 E 1	N 51 W 37	S 70 E 16	N 26 W 76	N 45 E 38	N 05 W 39	N 37 W 62	N 57 E 32	S 26 E 62
15	S 06 W 32	N 53 W 24	S 54 E 26	N 41 E 1	N 19 W 43	S 31 E 25	N 26 W 72	N 84 E 38	N 13 W 38	N 22 W 65	S 58 E 23	S 16 E 75
20	S 04 W 17	N 15 W 24	S 39 E 32	N 41 E 1	N 22 W 31	S 25 E 27	N 26 W 67	N 80 E 31	N 20 W 38	N 26 W 62	S 28 E 38	S 23 E 64
25	N 80 E 21	N 18 E 16	S 44 E 25	N 05 W 20	N 18 W 30	S 17 E 26	N 26 W 65	N 51 W 23	N 21 W 38	N 42 W 40	S 20 E 45	S 29 E 62
27½	N 84 E 21	N 09 E 15	S 26 E 21	N 04 W 23	N 24 W 24	S 04 E 26	N 23 W 49	N 50 W 23	N 43 W 31	N 46 W 33	S 08 E 49	S 39 E 62
30	N 77 E 21	N 18 W 15	S 42 E 20	N 23	N 25 W 18	S 04 E 29	N 23 W 36	S 55 W 10	N 36 W 27	N 44 W 32	S 07 E 50	S 44 E 40
	31 3^{38} a	**31** 7^{48} a	**31** 11^{48} a	**31** 3^{48} p	**31** 7^{48} p	**31** 11^{39} p	**9** 3^{48} a	**9** 7^{48} a	**9** 11^{48} a	**9** 3^{48} p	**9** 7^{45} p	**9** 11^{48} p
2½	S 10 E 46	N 63 W 33	N 87 E 33	S 51 E 44	N 33 W 39	N 27 W 33	N 75 W 39	S 33 E 23	S 33 E 60	N 53 W 64	N 43 W 44	S 30 E 47
5	S 07 E 44	N 53 W 37	N 89 E 30	S 31 E 33	N 30 W 51	N 28 W 30	N 73 W 60	S 43 E 28	S 30 E 69	N 47 W 60	N 45 W 47	S 40 E 49
10	S 24 E 40	N 52 W 26	N 44 E 22	S 17 E 29	N 36 W 59	S 28 E 3	N 79 W 49	S 33 E 33	S 54 E 67	N 39 W 59	N 37 W 47	S 40 E 49
15	S 21 E 31	N 50 W 23	S 56 E 22	S 82 E 22	N 15 W 58	S 28 E 3	N 80 W 47	S 37 E 39	S 33 E 74	N 43 W 46	N 33 W 49	S 38 E 49
20	S 24 E 27	N 15 W 15	S 21 E 30	N 88 E 12	N 11 W 56	S 28 E 3	S 36 E 43	S 30 E 43	S 25 E 71	N 24 W 33	N 33 W 48	S 35 E 46
25	S 27 E 16	N 02 W 16	S 23 E 29	N 38 E 20	N 26 W 39	S 53 W 23	S 48 E 47	S 22 E 49	S 30 E 69	N 02 W 25	N 26 W 46	S 33 E 44
27½	N 15 W 10	N 06 E 16	S 13 E 29	N 26 E 23	N 30 W 39	S 52 W 33	S 25 E 45	S 21 E 49	S 35 E 68	N 12 E 26	N 47 W 36	S 26 E 37
30	N 15 W 10	N 07 E 16	S 14 E 29	N 38 E 23	N 13 W 38	S 30 W 30	S 68 E 43	S 20 E 49	S 43 E 59	N 19 E 18	N 75 W 37	S 21 E 30

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	10 3^{39} a	10 7^{48} a	10 11^{48} a	10 3^{48} p	10 7^{48} p	10 11^{44} p	19 3^{39} a	19 7^{48} a	19 11^{45} a	19 3^{48} p	19 7^{45} p	19 11^{38} p
2½	N 11 W 51	N 11 W 51	S 45 E 28	N 41 W 51	N 23 W 50	S 25 E 60	N 73 W 51	S 43 E 30	N 75 W 17	N 08 W 30	S 40 E 39	N 56 W 28
5	N 20 W 60	N 23 W 50	S 55 E 36	N 31 W 54	N 25 W 47	S 22 E 60	N 68 W 60	S 24 E 36	N 64 W 23	N 27 W 23	S 46 E 39	N 42 W 33
10	N 18 W 59	N 23 W 55	S 53 E 39	N 30 W 53	N 36 W 43	S 14 E 58	N 60 W 21	S 25 E 44	N 40 W 23	S 22 E 2	S 50 E 33	N 36 W 32
15	N 28 W 57	N 20 W 61	S 66 E 32	N 30 W 52	N 35 W 43	S 15 E 66	N 61 W 6	S 16 E 35	N 18 W 30	S 22 E 2	S 39 E 24	N 18 W 35
20	N 24 W 65	N 29 W 56	N 85 E 21	N 28 W 53	N 45 W 42	S 16 E 64	S 71 E 11	S 25 E 28	N 16 W 29	S 22 E 2	S 27 E 24	N 10 W 41
25	N 21 W 63	N 60 W 37	N 06 E 18	N 03 W 56	N 57 W 40	S 40 E 42	S 71 E 11	S 36 E 27	N 14 E 22	S 22 E 2	S 27 E 23	N 11 W 43
27½	N 24 W 49	N 56 W 36	N 17 E 17	N 05 W 44	N 70 W 33	S 46 E 29	S 25 E 18	S 36 E 27	N 19 E 16	S 22 E 2	S 27 E 23	N 05 W 42
30	N 21 W 36	N 69 W 31	N 69 W 8	N 20 W 25	N 70 W 30	S 48 E 28	S 25 E 26	S 34 E 24	N 05 E 16	S 37 W 14	S 15 E 24	N 07 W 43

Meter	11 3^{48} a	11 7^{38} a	11 11^{45} a	11 3^{48} p	11 7^{48} p	11 11^{48} p	20 3^{38} a	20 7^{38} a	20 11^{48} a	20 3^{45} p	20 7^{48} p	20 11^{45} p
2½	S 67 W 23	N 41 W 51	S 63 E 51	0	N 19 W 75	S 43 E 26	N 11 W 33	S 43 E 57	0	N 24 W 34	S 39 E 39	N 66 W 23
5	S 57 W 28	N 26 W 45	S 60 E 69	0	N 11 W 68	S 43 E 41	N 10 W 27	S 38 E 50	0	N 35 W 39	S 39 E 37	N 46 W 23
10	S 60 W 33	N 26 W 37	S 52 E 67	0	N 10 W 58	S 45 E 43	N 10 W 22	S 30 E 42	N 33 W 17	N 35 W 24	S 20 E 47	N 22 W 23
15	S 75 W 16	N 63 W 23	S 29 E 57	N 10 W 23	N 16 W 45	S 38 E 42	N 40 W 22	S 30 E 36	N 34 W 23	N 25 W 24	S 30 E 47	N 10 W 16
20	N 57 E 4	N 81 W 9	S 28 E 44	N 06 W 28	N 36 W 32	S 24 E 58	N 66 W 16	S 29 E 35	N 31 W 22	N 51 W 16	S 18 E 46	N 16 W 30
25	N 69 E 24	S 57 W 11	S 43 E 43	N 07 E 32	N 55 W 27	S 25 E 34	N 88 W 16	S 28 E 29	N 15 E 16	N 74 W 16	S 14 E 39	N 05 W 32
27½	N 62 E 24	S 49 W 18	S 40 E 36	N 29 E 38	N 71 W 28	S 16 E 34	S 87 W 16	S 39 E 19	N 08 E 22	S 38 E 8	S 40 E 25	N 05 E 32
30	N 60 E 18	S 30 W 20	S 42 E 30	N 38 E 38	N 88 W 19	S 14 E 33	S 87 W 16	S 58 E 19	N 18 E 22	N 81 W 24	S 53 E 22	N 05 E 32

Meter	12 3^{45} a	12 7^{39} a	12 11^{38} a	12 3^{52} p	12 7^{38} p	12 11^{48} p	21 3^{40} a	21 7^{38} a	21 11^{45} a	21 3^{48} p	21 7^{38} p	21 11^{48} p
2½	0	N 52 W 57	N 65 E 19	N 63 W 20	N 08 W 57	S 25 E 25	N 28 W 50	N 69 E 26	N 33 W 17	N 23 W 30	S 78 E 23	0
5	S 34 W 23	N 43 W 54	S 86 E 32	N 23 W 23	N 14 W 60	S 58 E 33	N 14 W 50	N 70 E 26	N 32 W 23	N 23 W 44	N 84 E 30	0
10	S 04 E 23	N 28 W 55	N 87 E 39	N 08 W 17	N 24 W 67	S 60 E 32	N 22 W 35	S 39 E 39	N 43 W 30	N 14 W 52	S 45 E 33	0
15	N 01 E 2	N 21 W 50	S 82 E 31	N 23 W 36	N 14 W 65	S 41 E 32	N 28 W 25	S 15 E 50	N 40 W 29	N 35 W 35	S 42 E 32	0
20	N 01 E 2	N 19 W 34	S 29 E 38	N 23 W 44	N 26 W 43	S 12 E 26	N 35 W 19	S 14 E 49	N 34 W 32	N 10 W 34	S 16 E 36	N 77 W 17
25	N 01 E 2	N 27 W 27	S 14 E 38	N 30 W 46	N 26 W 35	S 17 E 26	N 48 W 13	S 04 E 48	N 28 W 26	N 25 W 18	S 03 E 29	N 56 W 28
27½	N 81 E 23	N 39 W 24	S 02 E 33	N 30 W 46	N 46 W 30	S 15 E 25	S 20 E 10	S 02 W 43	N 18 W 21	N 25 W 18	S 05 W 21	N 40 W 27
30	N 82 E 30	N 42 W 16	S 01 E 33	N 31 W 43	N 50 W 24	S 09 E 23	S 20 E 10	S 03 W 30	N 07 W 21	N 38 W 18	S 29 W 11	N 30 W 22

Meter	13 3^{48} a	13 7^{45} a	13 11^{38} a	13 3^{45} p	13 7^{39} p	13 11^{38} p	22 3^{45} a	22 7^{39} a	22 11^{48} a	22 3^{50} p	22 7^{38} p	22 11^{38} p
2½	S 33 E 30	N 68 W 33	S 80 E 28	S 46 E 33	N 44 W 49	N 41 W 23	N 27 W 34	S 85 E 25	N 72 E 17	N 33 W 51	S 66 E 23	S 85 E 25
5	S 12 E 39	N 68 W 33	S 80 E 30	S 56 E 33	N 45 W 50	0	N 30 W 39	S 55 E 33	N 83 E 17	N 28 W 60	0	S 40 E 17
10	S 13 E 42	N 46 W 22	S 55 E 36	S 56 E 29	N 39 W 41	S 39 E 17	N 31 W 38	S 64 E 29	S 80 E 14	N 33 W 36	S 79 E 17	N 40 W 1
15	S 14 W 21	N 40 W 15	S 42 E 43	S 33 E 21	N 28 W 43	S 39 E 23	N 37 W 42	S 57 E 30	S 83 W 1	N 34 W 21	S 60 E 23	N 40 W 1
20	S 11 E 20	N 37 W 16	S 26 E 42	S 67 E 21	N 24 W 39	S 07 E 30	N 40 W 48	S 40 E 24	S 83 W 1	N 32 W 27	S 48 E 32	N 44 W 1
25	S 38 E 20	S 66 E 6	S 22 E 51	S 80 E 20	N 22 W 42	S 08 W 30	N 35 W 34	S 20 E 24	S 83 W 1	N 28 W 20	S 24 E 22	N 40 W 1
27½	S 46 E 20	S 66 E 6	S 26 E 50	N 88 E 21	N 16 W 40	S 15 W 29	N 31 W 19	S 28 E 26	N 24 W 14	N 35 W 20	S 25 E 27	N 55 E 14
30	S 53 E 14	S 66 E 6	S 32 E 49	N 87 E 21	N 20 W 32	S 16 W 29	N 31 W 19	S 26 E 26	N 10 W 13	N 42 W 20	S 29 E 27	N 44 E 14

Meter	14 3^{48} a	14 7^{48} a	14 11^{45} a	14 3^{44} p	14 7^{45} p	14 11^{38} p	23 3^{48} a	23 7^{45} a	23 11^{44} a	23 3^{55} p	23 7^{39} p	23 11^{38} p
2½	S 23 E 51	N 76 W 23	N 76 E 23	S 39 E 46	N 71 W 39	N 62 W 44	N 81 W 32	S 73 E 47	S 66 E 44	N 40 W 51	N 05 E 36	N 85 E 44
5	S 25 E 64	N 75 W 28	S 84 E 17	S 49 E 48	N 66 W 39	N 33 W 43	N 50 W 39	S 63 E 44	S 51 E 46	N 49 W 60	N 02 E 39	S 55 E 39
10	S 18 E 62	N 54 W 22	N 86 E 17	S 37 E 43	N 40 W 50	N 30 W 26	N 39 W 50	S 64 E 43	N 77 E 32	N 50 W 68	N 67 E 36	S 08 W 30
15	S 20 E 53	N 43 W 22	N 86 E 33	S 37 E 43	N 30 W 49	S 43 E 6	N 18 W 44	S 39 E 38	N 70 W 6	N 27 W 57	S 24 E 34	S 60 W 23
20	S 12 E 37	N 20 E 23	N 77 E 38	S 36 E 34	N 31 W 47	S 43 E 6	N 34 W 43	S 32 E 38	N 70 W 6	N 26 W 55	S 02 W 31	N 38 W 5
25	S 08 E 26	N 41 E 23	N 66 E 31	S 76 E 26	N 05 W 47	S 43 E 6	N 23 W 35	S 30 E 31	N 01 E 23	N 37 W 54	S 15 W 24	N 85 W 7
27½	S 34 E 22	N 50 E 23	N 56 E 31	N 86 E 24	N 05 W 46	S 43 E 6	N 18 W 29	S 28 E 30	N 28 W 29	N 38 W 42	S 34	N 39 E 17
30	S 40 E 22	N 46 E 17	N 56 E 31	N 79 E 24	N 16 W 33	S 34 W 17	N 25 W 19	S 38 E 37	N 34 W 34	N 30 W 29	S 36	N 05 W 18

Meter	15 3^{38} a	15 7^{48} a	15 11^{44} a	15 3^{48} p	15 7^{48} p	15 11^{45} p	24 3^{49} a	24 7^{48} a	24 11^{45} a	24 3^{48} p	24 7^{45} p	24 11^{38} p
2½	S 41 E 46	S 49 W 36	N 58 W 28	S 41 E 60	N 47 W 28	N 70 W 23	N 33 W 51	N 33 W 39	S 03 W 33	0	N 56 W 39	S 40 E 39
5	S 30 E 46	S 63 W 39	N 35 W 28	S 49 E 60	N 36 W 30	N 70 W 33	N 34 W 56	N 32 W 36	S 02 W 33	N 03 W 34	N 48 W 39	S 46 E 39
10	S 19 E 54	N 65 W 22	N 09 W 17	S 46 W 55	N 31 W 29	N 61 W 32	N 32 W 49	N 32 W 32	S 13 W 22	N 16 W 55	N 40 W 33	S 19 E 48
15	S 08 E 52	N 68 W 22	S 74 E 29	S 16 E 58	N 20 W 39	N 30 W 38	N 22 W 48	N 02 E 32	S 10 W 22	N 14 W 68	N 32 W 24	S 12 E 48
20	S 08 E 51	N 39 E 24	S 28 E 28	S 31 E 56	N 04 W 47	N 34 W 31	N 22 W 46	S 27 E 6	S 48 W 22	N 11 W 64	N 34 W 24	S 16 E 44
25	S 20 E 38	N 45 E 30	S 10 E 30	S 19 E 44	N 04 E 47	N 50 W 31	N 19 W 40	S 27 E 6	S 33 W 29	N 13 W 60	N 28 W 16	S 19 E 42
27½	S 20 E 27	N 51 E 34	S 33	S 14 E 31	N 04 E 46	N 80 W 20	N 15 W 37	S 46 W 23	S 20 W 32	N 12 W 52	N 51 W 16	S 14 E 38
30	S 36 E 23	N 56 E 33	S 30	S 44 E 30	N 46	N 81 W 20	N 12 W 32	S 28 W 24	S 43 W 21	N 18 W 40	N 68 W 16	S 16 E 34

Meter	16 3^{49} a	16 7^{38} a	16 11^{45} a	16 3^{39} p	16 7^{48} p	16 11^{48} p	25 3^{38} a	25 7^{38} a	25 11^{48} a	25 3^{45} p	25 7^{48} p	25 11^{45} p
2½	S 51 E 49	S 12 E 23	N 47 W 44	S 85 E 46	N 73 W 25	N 20 W 51	N 62 W 28	N 51 W 44	S 71 E 50	N 25 E 33	N 37 W 34	S 13 E 39
5	S 53 E 50	S 03 E 23	N 49 W 39	S 60 E 51	N 43 W 28	N 30 W 50	N 30 W 30	N 46 W 39	S 71 E 49	N 11 E 44	N 32 W 44	S 20 E 39
10	S 29 E 51	S 50 W 14	N 42 W 21	S 44 E 59	N 17 E 30	N 23 W 49	N 45 W 29	N 13 W 27	S 58 E 47	N 16 W 47	N 45 W 43	S 35 E 33
15	S 20 E 50	N 03 W 1	S 46 E 6	S 30 E 48	N 10 E 32	N 26 W 43	N 52 W 32	N 61 W 21	S 60 E 46	N 34 W 47	N 27 W 44	S 44 E 42
20	S 06 E 49	N 52 E 17	S 46 E 6	S 26 E 39	N 04 E 38	N 28 W 42	N 38 W 32	S 44 E 7	S 63 E 46	N 36 W 49	N 40 W 48	S 22 E 36
25	S 08 E 48	N 36 E 28	S 46 E 6	S 40 E 33	N 03 W 47	N 31 W 46	N 17 W 38	S 55 W 23	S 38 E 34	N 36 W 49	N 35 W 46	S 04 W 48
27½	S 11 E 48	N 29 E 27	S 70 W 22	S 16 E 25	N 08 W 49	N 44 W 43	N 07 W 41	S 62 W 29	S 24 E 35	N 31 W 49	N 46 W 39	S 47
30	S 13 E 48	N 30 E 22	S 51 W 23	S 38 E 24	N 05 W 50	N 34 W 33	N 01 E 43	S 52 W 29	S 20 E 29	N 30 W 48	N 50 W 28	S 25 E 34

Meter	17 3^{45} a	17 7^{39} a	17 11^{38} a	17 3^{44} p	17 7^{38} p	17 11^{39} p	26 3^{40} a	26 7^{38} a	26 11^{48} a	26 3^{48} p	26 7^{48} p	26 11^{45} p
2½	S 53 E 33	S 20 W 20	N 86 W 39	N 13 W 28	S 59 E 14	N 38 W 51	S 87 W 29	N 66 W 39	S 28 E 51	S 72 W 26	N 51 W 33	S 38 E 78
5	S 44 E 33	S 29 W 20	N 69 W 46	N 65 E 33	S 52 E 14	N 42 W 50	N 78 W 39	N 32 W 39	S 27 E 60	N 81 W 34	N 18 W 47	S 38 E 68
10	S 33 E 39	S 52 W 17	N 66 W 43	S 73 E 44	S 62 E 14	N 38 W 59	N 65 W 45	N 21 W 46	S 12 E 58	N 74 W 43	N 13 W 49	S 28 E 66
15	S 26 E 38	S 82 W 16	N 23 W 40	S 60 E 47	N 36 W 30	N 36 W 67	N 52 W 53	N 18 W 45	S 05 E 57	N 74 W 37	N 34 W 47	S 16 E 64
20	S 27 E 38	N 66 W 22	N 22 W 38	S 47 E 46	N 16 E 30	N 28 W 56	N 32 W 50	N 06 W 30	S 09 E 64	N 48 W 36	N 72 W 46	S 16 E 72
25	S 18 E 31	N 12 W 17	N 22 W 36	S 24 E 44	N 11 E 32	N 37 W 31	N 05 W 58	S 25 E 13	S 12 E 54	N 43 W 38	N 79 W 7	S 23 E 66
27½	S 20 E 27	N 24 W 28	N 28 W 30	S 18 E 41	N 03 W 21	N 27 W 31	N 58	S 83 W 20	S 26 E 53	N 33 W 31	S 76 W 31	S 29 E 65
30	S 14 E 27	N 07 W 23	N 28 W 26	S 12 E 37	N 56 E 22	N 30 W 24	N 06 E 54	S 79 W 21	S 23 E 52	N 01 E 23	S 76 W 27	S 29 E 64

Meter	18 3^{38} a	18 7^{48} a	18 11^{48} a	18 3^{45} p	18 7^{39} p	18 11^{39} p	27 3^{45} a	27 7^{45} a	27 11^{48} a	27 3^{44} p	27 7^{38} p	27 11^{38} p
2½	N 40 W 23	S 40 E 33	N 85 W 33	N 16 E 23	S 12 E 20	N 63 W 33	S 23 E 33	N 05 W 28	S 80 E 69	0	0	S 51 E 39
5	0	S 19 E 33	N 73 W 30	N 45 E 30	S 42 E 20	N 65 W 42	S 12 E 30	N 32 W 39	S 67 E 68	0	N 51 W 55	S 44 E 46
10	S 39 E 23	S 04 W 22	N 26 W 36	S 78 E 30	S 34 E 25	N 29 W 42	S 61 W 23	N 43 W 43	S 50 E 67	0	N 42 W 37	S 48 E 49
15	S 24 E 33	S 16 W 22	N 20 W 36	S 48 E 23	S 36 E 22	N 30 W 47	N 4	S 33 E 7	S 58 E 56	N 03 W 30	N 43 W 43	S 49 E 58
20	S 16 E 22	S 12 W 22	N 07 W 32	S 20 E 33	S 39 E 21	N 19 W 48	S 54 E 22	S 33 E 7	S 48 E 54	N 02 E 33	N 35 W 47	S 48 E 60
25	S 22 W 22	N 10 W 6	N 08 E 29	S 23 E 32	S 31 E 19	N 07 W 44	S 58 E 32	S 51 E 28	S 42 E 53	N 02 W 36	N 14 W 47	S 29 E 44
27½	S 02 E 27	S 40 E 15	N 10 W 17	S 21 E 32	S 43 E 22	N 10 E 40	S 57 E 32	S 58 E 30	S 37 E 48	N 05 E 36	N 04 E 40	S 17 E 49
30	S 11 E 27	S 38 E 15	N 26 W 14	S 41 E 21	S 67 E 24	N 28 W 32	S 69 E 38	S 57 E 31	S 34 E 41	N 08 E 38	N 33 W 33	S 20 E 44

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

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Meter	28 3^{45} a	28 7^{45} a	28 11^{44} a	28 3^{42} p	28 7^{39} p	28 11^{39} p	7 3^{45} a	7 7^{49} a	7 11^{38} a	7 3^{48} p	7 7^{38} p	7 11^{38} p
2½	S 23 E 44	N 46 W 51	S 78 E 37	S 60 E 23	0	S 38 E 23	N 31 W 39	N 69 E 33	N 03 W 23	N 32 W 66	0	S 13 E 39
5	S 08 W 39	N 50 W 50	N 86 E 39	0	N 37 W 44	S 67 E 23	N 35 W 60	N 67 E 33	W 23	N 36 W 67	0	S 09 E 55
10	S 07 W 38	N 45 W 37	S 81 E 38	0	N 30 W 50	S 78 E 23	N 44 W 68	N 81 E 38	E 1	N 41 W 63	0	S 08 E 49
15	S 08 W 36	N 33 W 36	S 60 E 40	0	N 31 W 59	S 56 E 29	N 40 W 75	S 82 E 39	E 1	N 40 W 56	S 30 E 23	S 31 E 36
20	S 10 W 19	N 22 W 21	S 47 E 41	N 40 W 23	N 21 W 62	S 26 E 32	N 45 W 63	S 54 E 40	E 1	N 37 W 50	S 24 W 33	S 28 E 35
25	N 03 E 10	N 12 W 12	S 46 E 45	N 02 E 23	N 10 W 56	S 08 E 38	N 28 W 61	S 56 E 40	E 1	N 43 W 40	S 38 E 32	S 29 E 39
27½	S 51 E 20	N 48 W 11	S 46 E 37	N 03 E 28	N 11 W 49	S 36 E 41	N 25 W 70	S 51 E 42	N 27 E 17	N 41 W 29	S 23 E 36	S 37 E 34
30	S 68 E 29	N 43 W 21	S 47 E 40	N 16 E 27	N 18 W 43	S 08 E 35	N 16 W 69	S 50 E 40	N 12 E 23	N 34 W 29	S 03 E 36	S 40 E 34
	29 3^{46} a	**29** 7^{48} a	**29** 11^{45} a	**29** 3^{49} p	**29** 7^{45} p	**29** 11^{44} p	**8** 3^{48} a	**8** 7^{46} a	**8** 11^{44} a	**8** 3^{45} p	**8** 7^{40} p	**8** 11^{42} p
2½	S 33 E 51	N 38 W 30	0	S 06 E 33	N 48 W 39	N 82 E 28	N 67 W 32	S 73 E 23	S 23 E 40	N 23 W 51	N 10 W 40	S 24 E 51
5	S 21 E 54	N 45 W 33	N 77 E 23	S 07 E 36	N 46 W 39	N 69 E 33	N 49 W 44	N 74 E 33	S 26 E 41	N 38 W 50	N 14 W 33	S 34 E 60
10	S 07 E 49	N 34 W 44	S 80 E 33	S 78 E 31	N 39 W 50	S 48 E 25	N 88 W 45	N 70 E 32	S 23 E 37	N 44 W 59	N 16 W 24	S 21 E 68
15	S 18 E 36	N 45 W 43	S 54 E 32	S 88 E 27	N 26 W 48	S 28 E 22	N 32 W 42	S 45 E 32	S 34 E 36	N 30 W 58	S 15 E 6	S 10 E 66
20	S 32 E 30	N 22 W 43	S 44 E 38	N 39 W 6	N 24 W 47	S 20 W 28	N 21 W 28	S 24 E 39	S 31 E 31	N 04 W 57	S 15 E 6	S 16 E 60
25	N 58 E 5	N 07 E 45	S 27 E 43	N 76 E 16	N 25 W 57	S 31 W 33	N 74 E 32	S 24 E 43	S 49 E 27	N 08 E 45	S 67 W 17	S 24 E 49
27½	N 55 E 10	N 17 E 43	S 17 E 43	N 28 E 23	N 13 W 56	S 29 W 36	N 74 E 34	S 30 E 43	S 54 E 16	N 10 E 32	S 59 W 26	S 39 E 34
30	N 54 E 10	N 19 E 38	S 17 E 43	N 24 E 18	N 21 W 44	S 27 W 36	N 74 E 31	S 33 E 43	N 29 W 12	N 16 E 26	S 47 W 33	S 46 E 21
	30 3^{38} a	**30** 7^{38} a	**30** 11^{45} a	**30** 3^{46} p	**30** 7^{48} p	**30** 11^{45} p	**9** 3^{39} a	**9** 7^{48} a	**9** 11^{45} a	**9** 3^{49} p	**9** 7^{45} p	**9** 11^{39} p
2½	S 35 E 51	N 16 W 23	0	S 43 E 51	N 35 W 26	N 23 W 23	N 58 W 33	N 13 W 39	S 45 E 51	N 47 W 42	N 35 W 39	S 32 E 60
5	S 29 E 54	N 29 W 25	S 86 E 33	S 47 E 50	N 45 W 39	N 32 W 33	N 56 W 22	N 09 W 36	S 45 E 50	N 52 W 40	N 37 W 51	S 30 E 67
10	S 32 E 53	N 49 W 30	N 10 W 33	S 53 E 37	N 36 W 43	N 28 W 39	N 50 W 29	N 07 W 16	S 36 E 49	N 50 W 38	N 36 W 33	S 34 E 65
15	S 31 E 58	N 53 W 22	N 24 W 35	S 54 E 31	N 24 W 49	N 19 W 32	N 58 W 11	S 10 E 4	S 36 E 54	N 49 W 39	N 46 W 23	S 38 E 63
20	S 24 E 56	N 50 W 22	S 40 E 36	S 52 E 28	N 23 W 76	N 56 W 21	S 58 E 4	S 01 E 24	S 37 E 56	N 52 W 40	N 48 W 23	S 34 E 54
25	S 08 E 37	N 09 W 22	S 40 E 36	S 18 E 21	N 25 W 73	N 69 W 21	N 65 E 18	S 04 E 21	S 18 E 32	N 52 W 35	N 70 W 14	S 34 E 48
27½	S 12 E 36	S 41 E 6	S 39 E 38	S 57 W 13	N 13 W 76	S 87 W 21	N 60 E 33	S 08 W 21	S 17 E 32	N 50 W 35	N 74 W 23	S 45 E 45
30	S 14 E 30	S 41 E 6	S 38 E 36	N 47 W 13	N 14 W 75	S 67 W 16	N 54 E 33	S 12 W 21	S 16 E 25	N 40 W 38	N 72 W 32	S 46 E 27
	1 3^{40} a	**1** 7^{38} a	**1** 11^{45} a	**1** 3^{48} p	**1** 7^{38} p	**1** 11^{48} p	**10** 3^{38} a	**10** 7^{38} a	**10** 11^{44} a	**10** 3^{42} p	**10** 7^{48} p	**10** 11^{45} p
2½	S 31 E 49	0	N 08 W 30	S 34 E 55	N 43 W 33	N 37 W 50	S 58 W 23	N 61 W 33	S 43 E 60	N 32 W 23	N 50 W 46	S 41 E 39
5	S 22 E 51	0	N 37 W 33	S 60 E 43	N 38 W 33	N 17 W 51	S 56 W 23	N 32 W 41	S 42 E 63	N 30 W 23	N 41 W 57	S 40 E 46
10	S 18 E 50	0	N 16 W 36	S 62 E 37	N 33 W 27	N 26 W 50	N 43 W 23	N 43 W 22	S 44 E 67	N 03 E 23	N 21 W 53	S 31 E 50
15	S 18 E 50	0	N 15 W 21	S 53 E 36	N 21 W 38	N 26 W 48	E 2	N 27 W 10	S 35 E 61	N 35 W 30	N 22 W 52	S 33 E 48
20	S 18 E 49	0	S 28 E 6	S 22 E 36	N 15 W 47	N 26 W 37	E 2	N 13 E 12	S 31 E 50	N 14 W 29	N 14 W 48	S 23 E 47
25	S 15 E 48	N 15 W 23	S 28 E 6	S 19 E 27	N 16 W 49	N 52 W 30	E 2	S 50 E 6	S 30 E 49	N 13 W 32	N 10 W 40	S 22 E 41
27½	S 10 E 43	N 06 W 23	S 40 W 18	S 29 E 27	N 13 W 49	N 69 W 25	E 2	S 50 E 6	S 30 E 39	N 23 W 38	N 26 W 32	S 20 E 41
30	S 11 E 36	N 12 E 23	S 40 W 18	S 42 E 20	N 17 W 49	N 67 W 25	N 73 E 18	S 50 E 6	S 30 E 36	N 24 W 41	N 54 W 27	S 21 E 45
	2 3^{45} a	**2** 7^{40} a	**2** 11^{44} a	**2** 3^{39} p	**2** 7^{39} p	**2** 11^{38} p	**11** 3^{39} a	**11** 7^{38} a	**11** 11^{44} a	**11** 3^{48} p	**11** 7^{39} p	**11** 11^{48} p
2½	S 41 E 33	0	N 20 W 30	S 43 E 39	0	N 30 W 78	S 10 W 40	N 13 W 23	S 37 E 60	N 33 W 23	N 23 W 55	S 60 E 44
5	S 19 E 39	N 43 W 33	N 50 W 33	S 46 E 39	N 23 W 33	N 22 W 76	S 09 W 40	N 17 E 39	S 51 E 69	N 34 W 17	N 21 W 60	S 78 E 44
10	S 20 E 47	N 43 W 32	N 52 W 44	S 45 E 43	N 07 W 39	N 13 W 78	S 05 E 36	N 02 E 39	S 47 E 58	S 34 E 1	N 24 W 48	N 09 E 39
15	S 20 E 49	N 59 W 36	N 26 W 43	S 40 E 49	N 14 E 32	N 12 W 72	S 03 E 28	N 57 W 27	S 48 E 50	N 10 W 17	N 25 W 46	N 11 E 38
20	S 28 E 49	N 67 W 32	N 38 W 43	S 26 E 48	S 11 E 7	N 24 W 66	S 08 E 14	N 04 E 20	S 40 E 55	N 11 W 25	N 27 W 45	N 21 E 37
25	S 32 E 49	N 63 W 28	N 30 W 18	S 26 E 41	N 18 E 21	N 32 W 49	N 01 E 9	N 80 E 22	S 31 E 63	N 18 E 37	N 30 W 44	N 23 E 36
27½	S 40 E 46	N 54 W 20	S 39 E 12	S 24 E 38	N 21 E 32	N 41 W 42	N 01 E 9	S 05 E 9	S 23 E 49	N 33 E 41	N 22 W 37	N 31 E 38
30	S 39 E 46	N 34 W 13	S 25 W 24	S 24 E 24	N 16 E 35	N 42 W 37	N 01 E 9	S 05 E 9	S 30 E 48	N 16 E 48	N 27 W 31	N 33 E 31
	3 3^{48} a	**3** 7^{45} a	**3** 11^{49} a	**3** 3^{42} p	**3** 7^{40} p	**3** 11^{38} p	**12** 3^{45} a	**12** 7^{48} a	**12** 11^{38} a	**12** 3^{44} p	**12** 7^{38} p	**12** 11^{39} p
2½	N 73 E 47	0	N 21 W 57	N 45 E 47	S 43 E 30	N 34 W 60	S 15 W 39	N 25 W 38	S 72 E 51	S 38 E 23	N 17 W 34	S 83 E 23
5	N 65 E 47	0	N 14 W 60	N 34 E 36	S 44 E 13	N 22 W 64	S 17 W 37	N 24 W 38	S 86 E 43	S 31 E 14	N 16 W 51	N 79 E 23
10	N 65 E 43	S 79 W 23	N 23 W 54	N 64 E 22	N 43 W 1	N 33 W 61	S 50 W 39	N 31 W 40	S 67 E 42	0	N 18 W 59	S 57 E 17
15	N 69 E 35	S 70 W 23	N 22 W 53	N 56 E 15	N 43 W 1	N 18 W 51	S 07 W 21	N 33 W 38	S 51 E 37	0	N 18 W 43	S 48 E 13
20	S 15 E 33	N 70 E 2	N 26 W 32	S 43 W 4	N 22 E 17	N 17 W 44	S 07 W 28	N 32 W 35	S 39 E 43	N 03 E 23	N 05 W 47	S 44 E 13
25	S 12 E 25	N 86 W 16	N 24 W 26	S 43 W 4	N 16 E 20	N 16 W 36	S 49 E 29	N 34 W 31	S 24 E 47	N 44 E 17	N 08 W 50	S 07 W 14
27½	S 06 W 28	N 07 E 23	N 31 W 19	S 43 W 4	N 17 E 28	N 16 W 31	N 85 E 34	N 30 W 10	S 34 E 42	N 40 E 23	N 04 E 38	S 13 E 23
30	S 10 W 28	N 30 E 23	S 62 W 2	S 04 W 15	N 20 E 32	N 13 W 24	N 77 E 24	S 30 E 12	S 46 E 33	N 28 E 33	N 12 W 32	S 22 E 27
	4 3^{38} a	**4** 7^{48} a	**4** 11^{45} a	**4** 3^{44} p	**4** 7^{45} p	**4** 11^{40} p	**13** 3^{48} a	**13** 7^{45} a	**13** 11^{46} a	**13** 3^{46} p	**13** 7^{44} p	**13** 11^{38} p
2½	N 13 W 44	N 77 E 25	N 33 W 51	N 22 W 38	0	N 35 W 37	S 07 W 46	N 13 W 23	S 73 E 33	S 17 E 33	N 25 W 33	0
5	N 09 E 39	N 83 E 28	N 30 W 38	N 20 W 37	0	N 38 W 40	S 06 W 46	N 20 W 23	S 73 E 33	S 27 E 33	N 29 W 38	0
10	N 62 E 22	S 64 E 27	N 30 W 38	N 17 W 29	S 45 E 23	N 35 W 40	S 10 E 40	N 32 W 30	S 74 E 29	S 27 E 44	N 25 W 40	0
15	S 10 W 6	S 30 E 27	N 22 W 42	S 20 E 4	S 34 E 33	N 42 W 46	S 09 E 35	N 34 W 32	S 74 E 28	S 37 E 43	N 32 W 40	0
20	S 10 W 6	S 40 E 22	N 23 W 41	S 05 E 19	S 12 E 32	N 40 W 46	S 02 W 22	N 16 W 32	N 86 E 31	S 36 E 38	N 29 W 43	0
25	S 10 W 6	S 32 E 19	N 10 W 31	S 04 W 26	S 12 E 38	N 43 W 42	S 35 E 12	N 20 E 21	N 86 E 35	S 61 E 31	N 34 W 46	0
27½	S 78 W 29	S 35 E 15	N 09 E 21	S 12 W 30	S 23 E 38	N 41 W 42	S 79 E 15	N 40 E 16	N 89 E 34	S 81 E 31	N 30 W 45	0
30	S 51 W 24	S 43 E 15	N 24 E 22	S 14 W 33	S 35 E 31	N 40 W 46	S 85 E 22	N 39 E 16	E 37	E 31	N 34 W 46	S 47 E 14
	5 3^{38} a	**5** 7^{38} a	**5** 11^{48} a	**5** 3^{45} p	**5** 7^{48} p	**5** 11^{45} p	**14** 3^{38} a	**14** 7^{48} a	**14** 11^{44} a	**14** 3^{42} p	**14** 7^{45} p	**14** 11^{39} p
2½	N 37 W 50	S 43 E 33	N 30 W 23	N 48 W 26	S 27 E 25	N 20 W 47	S 23 E 51	N 51 W 23	S 89 E 30	S 07 E 57	S 55 E 39	N 11 E 28
5	N 16 W 47	S 33 E 39	N 16 W 33	N 37 W 34	S 31 E 28	N 02 W 44	S 13 E 43	N 54 W 28	N 70 E 33	S 23 E 38	S 63 E 39	N 12 E 20
10	N 23 W 41	S 32 E 43	N 24 W 39	N 26 W 38	S 46 E 47	N 07 W 32	S 11 E 42	S 64 W 23	N 74 E 22	S 29 E 42	S 74 E 33	N 18 E 13
15	N 30 W 31	S 31 E 49	N 41 W 47	N 10 W 38	S 50 E 53	N 12 W 20	S 13 E 28	S 82 W 27	S 74 W 4	S 40 E 37	S 74 E 32	S 10 W 2
20	N 56 W 19	S 31 E 49	N 33 W 45	N 13 W 23	S 42 E 53	N 27 W 20	S 07 E 22	N 80 W 22	S 05 E 17	S 54 E 31	S 63 E 37	S 10 W 2
25	S 84 W 21	S 31 E 48	N 06 E 41	N 37 W 23	S 37 E 52	S 10 E 9	S 05 E 21	N 32 W 16	S 16 E 23	S 57 E 21	S 51 E 41	S 61 E 17
27½	S 68 W 22	S 26 E 46	N 16 E 34	N 35 W 23	S 32 E 52	N 72 W 17	S 12 E 21	N 17	S 17 E 30	S 66 E 21	S 51 E 36	S 40 E 21
30	S 78 W 22	S 18 E 46	N 25 E 30	N 33 W 15	S 24 E 49	S 84 W 30	S 26 E 21	N 46 E 18	S 14 E 30	S 68 E 21	S 44 E 30	S 35 E 28
	6 3^{40} a	**6** 7^{38} a	**6** 11^{44} a	**6** 3^{38} p	**6** 7^{39} p	**6** 11^{48} p	**15** 3^{38} a	**15** 7^{39} a	**15** 11^{48} a	**15** 3^{45} p	**15** 7^{48} p	**15** 11^{45} p
2½	N 36 W 49	N 87 E 39	N 04 W 33	N 23 W 51	S 53 E 23	N 28 W 17	S 09 E 50	N 28 W 33	N 39 E 23	S 43 E 51	N 27 W 36	N 10 E 33
5	N 34 W 50	S 80 E 42	N 05 W 39	N 29 W 65	S 63 E 33	N 25 W 17	S 18 E 50	N 47 W 33	N 52 E 17	S 41 E 51	N 28 W 33	N 25 W 33
10	N 33 W 49	S 74 E 41	N 08 W 36	N 44 W 64	N 89 E 32	S 19 W 20	S 18 E 47	N 47 W 22	N 38 W 23	S 48 E 37	N 24 W 30	N 18 W 44
15	N 34 W 48	S 86 E 43	N 06 W 39	N 38 W 61	S 79 E 32	S 19 W 23	S 07 E 35	S 85 W 12	N 78 W 20	S 46 E 31	N 34 W 26	N 11 W 38
20	N 47 W 47	S 71 E 30	N 04 W 41	N 29 W 60	S 47 E 38	S 26 W 20	S 05 W 27	N 35 W 22	S 36 W 20	S 34 E 22	N 30 W 23	S 86 W 22
25	N 43 W 46	S 09 W 16	N 04 W 45	N 26 W 53	S 25 E 37	S 20 W 16	S 09 E 26	N 19 W 21	S 16 W 20	S 19 E 21	N 03 W 38	S 75 W 22
27½	N 34 W 39	S 10 W 16	N 05 W 47	N 41 W 48	S 02 E 40	N 05 E 18	S 30 E 26	N 02 E 22	S 03 W 20	S 19 E 21	N 13 E 38	N 84 W 32
30	N 24 W 28	S 10 W 16	N 15 W 48	N 47 W 43	S 01 W 38	N 02 E 18	S 34 E 23	N 14 E 22	S 17	S 46 E 21	N 14 E 38	N 86 W 32

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

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Meter	16 3³⁹ a	16 7³⁹ a	16 11⁴⁴ a	16 3⁴⁸ p	16 7³⁸ p	16 11⁴⁸ p	25 3³⁹ a	25 7³⁸ a	25 11³⁹ a	25 3⁴⁸ p	25 7⁴⁴ p	25 11⁴⁸ p
2½	S 15 E 46	N 13 W 39	N 02 E 39	S 33 E 23	N 15 W 51	N 37 E 44	N 40 E 33	N 14 W 39	S 86 E 44	N 14 W 39	N 21 W 62	N 82 E 39
5	S 19 E 51	N 06 W 39	N 05 W 44	S 23 E 23	N 13 W 50	N 05 E 51	N 03 W 39	N 13 W 60	S 83 E 48	N 21 W 69	N 18 W 82	S 86 E 39
10	S 26 E 55	N 65 W 38	N 25 W 49	S 53 E 39	N 20 W 37	N 39 W 54	N 22 W 47	N 07 W 68	N 60 E 50	N 36 W 68	N 18 W 79	S 64 E 50
15	S 24 E 56	N 29 W 53	N 26 W 49	S 55 E 41	N 30 W 37	N 26 W 58	N 40 W 48	N 16 W 75	N 60 E 54	N 35 W 75	N 16 W 81	N 74 E 23
20	S 29 E 48	N 80 W 49	N 34 W 37	S 39 E 35	N 26 W 43	N 25 W 46	N 39 W 49	N 24 W 54	N 18 W 64	N 24 W 72	N 30 W 74	N 50 W 42
25	S 21 E 37	N 10 W 52	N 42 W 37	S 52 E 27	N 09 W 45	N 23 W 38	N 29 W 49	N 43 W 54	N 26 W 64	N 26 W 71	N 34 W 75	N 70 W 42
27½	S 19 E 26	N 24 W 42	N 56 W 37	N 44 W 9	N 02 E 45	N 46 W 33	N 14 W 48	N 40 W 53	N 45 W 59	N 23 W 69	N 43 W 65	N 60 W 36
30	S 27 E 23	N 38 W 45	N 50 W 35	N 44 W 9	N 01 W 44	N 71 W 29	N 20 W 46	N 46 W 56	N 45 W 49	N 21 W 68	N 50 W 57	N 78 W 33
	17 3⁴⁵ a	**17 7⁴⁸ a**	**17 11³⁸ a**	**17 3⁴⁸ p**	**17 7³⁹ p**	**17 11³⁸ p**	**26 3⁴⁴ a**	**26 7³⁸ a**	**26 11⁴⁴ a**	**26 3⁴⁰ p**	**26 7⁴⁸ p**	**26 11⁴⁴ p**
2½	S 33 E 51	N 29 W 34	N 06 E 23	S 45 E 51	0	N 03 W 51	N 33 W 46	N 02 E 48	N 57 E 33	N 01 E 41	N 33 W 75	S 68 E 33
5	S 33 E 50	N 27 W 39	N 21 E 33	S 33 E 60	0	N 01 W 50	N 36 W 55	N 24 W 67	S 78 E 33	N 25 W 47	N 28 W 76	S 67 E 30
10	S 44 E 37	N 21 W 38	N 58 W 23	S 29 E 49	0	N 08 E 37	N 20 W 59	N 33 W 73	S 75 E 38	N 33 W 68	N 27 W 69	S 69 E 36
15	S 46 E 31	N 15 W 46	N 29 W 36	S 47 E 35	S 61 E 17	N 12 E 28	N 21 W 68	N 33 W 74	S 87 E 31	N 30 W 66	N 25 W 76	S 88 E 26
20	S 33 E 22	N 19 W 52	N 06 W 21	S 39 E 34	S 45 E 17	N 15 E 22	N 17 W 63	N 46 W 68	N 31 E 21	N 20 W 64	N 24 W 70	N 22 E 27
25	S 19 E 22	N 14 W 51	S 13 E 6	S 35 E 34	N 74 E 16	N 15 W 28	N 22 W 72	N 24 W 65	N 14 W 34	N 13 W 63	N 36 W 62	N 19 E 32
27½	S 22 E 31	N 06 W 52	S 13 E 6	S 27 E 33	N 58 E 23	N 11 W 21	N 08 W 71	N 30 W 56	N 23 W 30	N 13 W 64	N 40 W 48	N 44 W 31
30	S 32 E 30	N 03 W 43	S 13 E 6	S 35 E 33	N 47 E 30	N 13 W 21	N 12 W 66	N 40 W 55	N 24 W 23	N 08 W 63	N 39 W 48	N 71 W 25
	18 3³⁸ a	**18 7⁴⁸ a**	**18 11⁴⁴ a**	**18 3³⁸ p**	**18 7⁴⁴ p**	**18 11³⁹ p**	**27 3⁴⁸ a**	**27 7⁴⁸ a**	**27 11⁴⁴ a**	**27 3⁴¹ p**	**27 7³⁸ p**	**27 11³⁹ p**
2½	S 63 E 51	S 01 E 23	N 24 W 30	S 60 E 30	S 41 E 28	N 21 W 28	N 29 W 33	N 34 W 79	N 45 E 39	N 13 W 33	N 17 W 79	N 22 E 44
5	S 65 E 56	S 01 E 23	N 23 W 33	S 76 E 30	S 40 E 30	N 23 W 30	N 38 W 39	N 42 W 83	N 43 E 48	N 13 W 44	N 16 W 83	N 16 E 33
10	S 42 E 49	S 24 E 23	N 11 W 32	S 75 E 27	S 46 E 25	N 17 W 41	N 57 W 43	N 44 W 79	N 41 E 43	N 16 W 43	N 18 W 80	N 11 E 32
15	S 42 E 38	S 56 E 16	N 10 W 32	S 21 E 32	S 48 E 19	N 13 W 32	N 54 W 47	N 40 W 77	N 50 E 31	N 12 W 47	N 74	S 20 W 6
20	S 38 E 40	S 33 E 16	N 07 W 29	S 26 E 32	S 53 E 22	N 26	N 18 W 49	N 35 W 69	S 44 W 12	N 13 W 49	N 11 E 72	S 20 W 6
25	S 22 E 29	S 58 E 16	N 12 W 14	S 44 E 20	N 42 W 5	N 20	N 21 W 49	N 16 W 60	S 33 W 27	N 13 W 37	N 12 E 60	S 12 W 24
27½	S 23 E 31	N 86 E 23	S 12 E 7	S 56 E 14	N 42 W 5	N 25 W 25	N 26 W 48	N 11 W 54	S 33 W 30	N 16 W 39	N 04 W 53	S 19 E 34
30	S 11 E 23	S 88 E 23	S 12 E 7	S 48 E 14	N 42 W 5	N 23 W 25	N 24 W 48	N 03 W 47	S 32 W 26	N 13 W 38	N 08 W 40	S 26 E 36
	19 3³⁸ a	**19 7⁴⁰ a**	**19 11⁴⁸ a**	**19 3⁴⁸ p**	**19 7⁴⁸ p**	**19 11⁴⁴ p**	**28 3³⁹ a**	**28 7⁴⁸ a**	**28 11³⁸ a**	**28 3⁴⁸ p**	**28 7³⁹ p**	**28 11³⁹ p**
2½	S 83 E 30	S 53 E 30	N 08 W 39	N 06 E 30	S 43 E 33	N 35 W 49	S 56 E 23	N 51 W 60	N 03 E 30	0	N 46 W 78	N 13 W 39
5	N 83 W 1	S 65 E 30	N 23 W 39	N 07 E 28	S 36 E 33	N 32 W 52	S 71 E 23	N 38 W 63	N 30	S 47 W 39	N 55 W 78	N 35 E 39
10	N 83 W 1	S 17 E 37	N 33 W 47	N 09 E 19	S 24 E 36	N 30 W 51	S 34 E 28	N 40 W 72	N 01 W 33	S 62 W 38	N 49 W 80	N 09 E 50
15	N 83 W 1	S 26 E 32	N 17 W 43	S 06 W 5	S 10 E 26	N 44 W 43	S 34 E 30	N 43 W 70	N 24 E 41	S 85 W 43	N 42 W 78	S 18 W 11
20	S 74 W 14	S 18 E 29	N 16 W 40	S 06 W 5	S 22 E 25	N 48 W 34	S 22 E 22	N 16 W 38	N 84 E 36	N 15 E 28	N 46 W 74	S 24 W 38
25	S 53 W 23	S 28 E 23	N 16 W 35	S 84 E 17	S 25 E 20	N 48 W 25	N 35 W 4	N 13 W 30	S 62 E 42	N 36 E 41	N 44 W 68	S 12 W 46
27½	S 45 W 23	S 14 E 17	N 05 W 30	S 66 E 21	S 68 E 8	N 43 W 13	S 30 W 16	N 54 W 9	S 27 E 46	N 32 E 40	N 31 W 64	S 04 W 53
30	S 42 W 17	S 26 W 16	N 03 W 30	S 46 E 29	N 26 W 9	N 53 W 6	S 50 W 17	N 49 W 9	S 35 E 48	N 33 E 27	N 25 W 60	S 12 E 52
	20 3³⁸ a	**20 7³⁸ a**	**20 11⁴⁴ a**	**20 3⁴⁹ p**	**20 7³⁹ p**	**20 11⁴⁸ p**	**29 3³⁸ a**	**29 7³⁸ a**	**29 11⁴⁸ a**	**29 3⁴⁹ p**	**29 7⁴⁸ p**	**29 11⁴⁰ p**
2½	N 14 W 39	S 43 E 49	N 41 W 33	N 08 W 33	S 37 E 39	N 45 W 47	S 13 E 39	N 89 W 44	N 29 E 39	S 15 E 33	N 55 W 39	N 44 W 42
5	N 06 E 30	S 33 E 43	N 43 W 36	N 04 E 36	S 36 E 48	N 43 W 39	S 13 E 60	N 81 W 48	N 22 E 44	S 62 E 36	N 55 W 39	N 48 W 41
10	N 04 W 32	S 33 E 47	N 51 W 36	N 13 W 40	S 46 E 48	S 44 E 6	S 11 E 59	N 76 W 47	S 24 W 6	S 61 E 38	N 51 W 43	N 52 W 36
15	N 49 W 11	S 31 E 48	N 43 W 32	N 14 W 20	S 40 E 41	S 44 E 6	S 08 E 57	N 74 W 46	S 23 E 34	N 88 E 38	N 40 W 49	N 47 W 37
20	S 04 E 6	S 31 E 46	N 46 W 31	S 06 E 8	S 27 E 42	S 44 E 6	S 03 W 45	N 10 E 47	S 15 E 34	S 15 E 28	N 32 W 58	N 48 W 31
25	S 04 E 6	S 33 E 43	N 53 W 28	S 06 E 8	S 23 E 39	N 27 E 13	S 04 E 37	N 24 E 38	S 10 E 39	S 11 W 29	N 22 W 56	N 80 W 24
27½	S 60 W 18	S 24 E 27	N 51 W 22	S 78 W 17	S 23 E 34	N 56 E 14	S 37 E 32	N 47 E 36	S 20 E 47	S 05 E 28	N 18 W 56	S 80 W 31
30	S 65 W 18	S 24 E 27	N 51 W 16	S 50 W 15	S 26 E 27	N 03 E 22	S 69 E 34	N 50 E 39	S 22 E 48	N 66 E 21	N 18 W 53	S 79 W 31
	21 3⁴⁰ a	**21 7³⁸ a**	**21 11⁴⁹ a**	**21 3⁴⁹ p**	**21 7³⁸ p**	**21 11³⁹ p**	**30 3³⁸ a**	**30 7³⁸ a**	**30 11⁴⁸ a**	**30 3⁴⁸ p**	**30 7⁴⁰ p**	**30 11⁴⁸ p**
2½	N 22 W 47	S 89 E 32	N 48 W 23	N 01 E 46	S 58 E 41	0	S 37 E 30	S 63 E 23	0	S 18 E 33	N 55 W 39	N 30 W 32
5	N 24 W 48	S 68 E 44	N 47 W 33	N 10 W 51	S 67 E 39	S 03 E 23	S 50 E 36	N 76 W 33	N 75 W 30	S 09 E 39	N 53 W 44	N 50 W 39
10	N 33 W 47	S 79 E 38	N 11 E 13	N 19 W 53	S 65 E 35	S 40 E 23	S 57 E 36	N 79 W 32	N 36 W 39	S 20 E 43	N 44 W 49	N 33 W 40
15	N 31 W 41	S 35 E 37	N 73 E 18	N 26 W 48	N 85 E 18	N 25 W 2	S 03 E 43	N 52 W 35	N 34 W 40	S 36 E 40	N 40 W 41	N 35 W 43
20	N 31 W 38	S 18 E 37	N 06 E 22	N 33 W 37	S 54 E 20	N 25 W 2	S 06 W 49	N 25 W 37	N 65 W 28	S 30 E 49	N 18 W 34	N 30 W 46
25	N 41 W 30	S 24 E 36	N 14 W 27	N 28 W 28	S 40 E 20	N 25 E 18	S 04 E 46	N 17 W 35	S 31 W 33	S 29 E 49	N 20 W 39	N 25 W 37
27½	S 31 E 13	S 34 E 30	N 08 E 22	N 28 W 25	S 44 E 20	N 20 E 17	S 04 E 46	N 10 E 35	S 20 W 36	S 23 E 49	N 02 W 31	S 86 W 19
30	S 31 E 13	S 34 E 30	N 11 E 22	N 36 W 24	S 38 E 20	N 20 E 25	S 36 E 37	N 41 E 32	S 23 W 39	S 24 E 48	N 10 E 47	S 37 E 14
	22 3⁴⁸ a	**22 7⁴⁸ a**	**22 11³³ a**	**22 3³⁸ p**	**22 7³⁸ p**	**22 11³⁸ p**	**31 3³⁹ a**	**31 7³⁸ a**	**31 11⁴⁸ a**	**31 3⁵⁰ p**	**31 7³⁹ p**	**31 11⁴⁴ p**
2½	N 21 W 33	S 70 E 38	S 45 E 23	N 13 W 33	N 58 E 28	S 15 E 33	S 33 E 42	S 77 W 33	0	S 37 E 55	N 58 W 23	N 27 W 47
5	N 21 W 39	S 72 E 40	S 42 E 23	N 13 W 38	N 70 E 23	S 13 E 27	S 36 E 46	S 77 W 39	N 32 W 33	S 27 E 56	N 77 W 33	N 27 W 52
10	N 21 W 40	S 69 E 40	S 45 E 20	N 23 W 32	N 73 E 27	S 27 E 22	S 33 E 46	S 60 W 40	N 24 W 29	S 25 E 58	N 54 W 29	N 30 W 39
15	N 20 W 40	S 70 E 40	S 51 E 22	N 33 W 40	N 85 E 22	S 14 E 12	S 34 E 46	N 20 E 24	N 59 W 29	S 31 E 53	N 25 W 22	N 31 W 39
20	N 20 W 40	S 51 E 36	N 42 W 2	N 26 W 43	N 64 E 22	N 14 W 3	S 26 E 47	N 80 E 6	S 55 W 13	S 44 E 45	N 15 E 33	N 30 W 34
25	N 08 W 35	S 46 E 30	N 42 W 2	N 21 W 42	N 65 E 22	N 14 W 3	S 30 E 46	N 58 E 31	S 41 E 6	S 33 E 46	N 07 W 38	N 35 W 30
27½	N 04 E 30	S 42 E 26	N 42 W 2	N 09 W 21	N 60 E 22	N 86 E 13	S 24 E 42	N 58 E 34	S 41 E 6	S 30 E 45	N 10 W 38	N 48 W 30
30	N 22 W 23	S 41 E 21	N 69 E 17	N 12 W 18	N 53 E 22	N 79 E 14	S 27 E 38	N 48 E 34	S 41 E 6	S 34 E 47	N 01 W 38	N 53 W 30
	23 3³⁸ a	**23 7⁴⁸ a**	**23 11⁴⁸ a**	**23 3⁴⁸ p**	**23 7⁴⁴ p**	**23 11³⁸ p**	**1 3⁴⁸ a**	**1 7⁴⁸ a**	**1 11⁴⁹ a**	**1 3⁴⁰ p**	**1 7³⁸ p**	**1 11³⁹ p**
2½	N 38 W 39	S 42 E 39	S 23 E 33	N 05 E 39	N 03 W 36	S 11 E 51	S 55 E 44	S 10 E 33	N 30 W 39	N 85 E 33	0	N 23 W 47
5	N 31 W 45	S 36 E 44	S 15 E 33	N 21 W 51	N 10 E 33	S 11 E 63	S 47 E 44	S 28 W 30	N 36 W 42	S 81 E 33	0	N 20 W 47
10	N 31 W 46	S 66 E 43	S 13 E 29	N 06 E 59	N 14 E 32	S 05 E 59	S 24 E 33	N 85 W 20	N 36 W 38	S 60 E 29	S 87 W 23	N 26 W 49
15	N 32 W 43	S 61 E 31	S 24 E 26	N 16 W 35	N 20 E 28	S 18 E 46	S 25 E 32	N 71 W 30	N 44 W 25	S 26 E 32	N 87 E 1	N 13 W 48
20	N 11 W 34	S 18 E 20	S 32 E 31	N 61 W 36	N 67 E 18	S 27 E 41	S 25 E 37	N 39 W 30	N 44 W 20	S 26 E 35	N 87 E 1	N 13 W 37
25	N 15 E 24	S 21 E 13	S 47 E 28	N 48 W 20	N 73 E 18	S 62 E 34	S 36 E 33	N 36 W 33	N 68 W 20	S 12 E 35	N 87 E 1	N 21 W 25
27½	N 57 E 14	S 67 E 20	S 42 E 31	N 51 W 20	S 70 E 28	S 64 E 34	S 36 E 30	N 34 W 37	N 62 W 23	S 10 E 28	S 75 E 23	N 28 W 24
30	S 27 E 13	S 56 E 22	S 53 E 31	N 63 W 21	S 80 E 33	S 86 E 19	S 38 E 20	N 32 W 40	S 84 W 26	S 01 E 31	N 75 E 23	N 45 W 16
	24 3³⁸ a	**24 7⁴⁰ a**	**24 11⁴⁸ a**	**24 3⁴⁴ p**	**24 7⁴⁸ p**	**24 11³⁹ p**	**2 3³⁹ a**	**2 7⁴⁸ a**	**2 11⁴⁴ a**	**2 3⁴⁸ p**	**2 7⁴⁸ p**	**2 11⁴⁸ p**
2½	N 23 W 41	0	S 33 E 39	N 31 W 57	N 03 W 32	S 60 E 71	N 44 E 36	N 61 W 23	N 32 W 55	N 55 E 30	S 55 E 33	N 26 W 65
5	N 36 W 44	N 54 E 28	S 48 E 47	N 33 W 60	N 09 E 39	S 63 E 72	N 56 E 33	0	N 35 W 60	N 30 W 39	S 54 E 33	N 43 W 68
10	N 46 W 49	N 03 W 44	S 45 E 43	N 41 W 58	N 01 W 50	S 64 E 65	N 67 E 19	0	N 33 W 54	N 30 E 39	S 66 E 22	N 40 W 66
15	N 30 W 38	N 07 W 44	S 52 E 31	N 21 W 64	N 09 W 49	S 67 E 61	S 17 E 23	N 63 W 23	N 43 W 57	S 09 W 43	N 51 W 6	N 20 W 59
20	N 47 W 37	N 22 W 35	N 64 E 29	N 19 W 60	N 24 W 52	S 54 E 54	S 05 E 24	N 53 W 17	N 43 W 43	S 07 E 39	S 07 E 22	N 16 W 58
25	N 43 W 37	N 31 W 31	N 69 E 28	N 09 W 60	N 38 W 57	S 46 E 46	S 36 E 27	S 67 E 2	N 24 W 32	S 03 E 33	S 07 E 22	N 14 W 57
27½	N 38 W 30	N 44 W 27	N 71 E 20	N 12 W 52	N 53 W 57	S 49 E 36	S 28 W 29	S 67 E 2	N 26 W 25	S 20 W 33	S 27 E 21	N 15 W 40
30	N 31 W 30	N 68 W 28	N 60 W 10	N 15 W 47	N 54 W 45	S 51 E 27	S 18 W 30	S 67 E 2	S 35 E 20	N 10 W 2	S 51 E 29	N 08 W 33

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	**3** 3^{39} a	**3** 7^{40} a	**3** 11^{48} a	**3** 3^{45} p	**3** 7^{48} p	**3** 11^{45} p	**12** 3^{39} a	**12** 7^{48} a	**12** 11^{45} a	**12** 3^{48} p	**12** 7^{42} p	**12** 11^{48} p
2½	N 13 W 47	S 64 E 36	N 28 W 69	N 25 W 60	S 53 E 39	N 30 W 23	S 15 E 48	N 49 W 39	S 78 E 33	S 48 E 37	N 45 W 51	S 03 W 33
5	N 18 W 50	S 50 E 42	N 31 W 68	N 24 W 60	S 41 E 51	N 26 W 30	S 15 E 50	N 48 W 51	S 64 E 30	S 40 E 37	N 34 W 60	S 63 E 25
10	N 21 W 49	S 80 E 32	N 44 W 67	N 22 W 58	S 41 E 49	N 44 W 33	S 15 E 49	N 48 W 32	S 38 E 32	S 26 E 22	N 21 W 48	S 54 E 29
15	N 31 W 47	N 45 W 28	N 37 W 59	N 66 W 47	S 41 E 48	N 08 W 32	S 16 E 49	N 87 W 23	S 18 E 38	S 22 E 21	N 03 W 48	S 54 E 21
20	N 24 W 46	N 16 W 24	N 32 W 54	N 80 W 35	S 40 E 29	N 12 E 32	S 13 E 49	S 49 E 10	S 14 E 38	S 04 E 15	N 04 W 34	S 40 E 32
25	N 37 W 46	N 24 W 29	N 25 W 48	N 74 W 33	S 22 E 25	N 14 E 21	S 14 E 48	S 49 E 10	S 30 E 47	S 64 E 15	N 36 W 27	S 30 E 25
27½	N 43 W 46	N 30 W 29	N 20 W 48	S 62 W 22	S 43 E 34	N 14 E 21	S 16 E 47	S 49 E 10	S 36 E 47	S 72 E 35	N 53 W 17	S 30 W 18
30	N 63 W 42	N 32 W 29	N 16 W 40	S 66 W 21	S 24 E 28	N 07 E 31	S 25 E 46	S 49 E 10	S 34 E 49	N 88 E 36	N 66 W 18	S 27 W 22
	4 3^{48} a	**4** 7^{38} a	**4** 11^{39} a	**4** 3^{48} p	**4** 7^{39} p	**4** 11^{48} p	**13** 3^{38} a	**13** 7^{40} a	**13** 11^{48} a	**13** 3^{44} p	**13** 7^{48} p	**13** 11^{45} p
2½	N 02 W 69	S 76 E 47	N 05 W 30	N 23 W 51	N 73 E 33	0	S 13 E 51	N 84 W 49	S 83 E 23	S 07 W 50	S 32 W 26	0
5	N 05 W 63	S 69 E 44	N 07 W 30	N 34 W 51	N 74 E 44	S 71 E 23	S 18 E 44	N 72 W 50	0	S 10 W 52	S 49 W 39	0
10	N 24 W 54	S 66 E 40	N 33 W 27	N 33 W 49	S 77 E 38	N 71 W 1	S 08 E 38	N 72 W 45	S 05 E 28	S 19 E 41	S 39 W 38	S 13 E 23
15	N 21 W 28	S 52 E 38	N 44 W 32	N 33 W 49	S 65 E 36	N 71 W 1	S 08 E 42	N 38 W 31	S 36 E 36	S 24 E 38	S 52 W 44	S 05 E 23
20	N 28 W 28	S 34 E 31	N 12 W 38	N 25 W 39	S 63 E 31	N 71 W 1	S 14 E 36	S 70 E 12	S 52 E 47	S 34 E 42	S 53 W 31	S 29 E 30
25	N 51 W 25	S 09 E 31	N 10 W 38	N 54 W 29	S 62 E 34	N 47 E 23	S 35 E 34	N 60 E 25	S 45 E 49	S 38 E 46	N 47 W 28	S 32 E 32
27½	N 86 W 16	S 24 E 30	N 08 W 42	N 54 W 29	S 66 E 37	N 46 E 23	S 56 E 36	N 74 E 30	S 35 E 47	S 44 E 48	N 70 W 29	S 26 E 22
30	N 88 W 16	S 23 E 34	N 02 E 42	N 50 W 28	S 55 E 35	N 56 E 23	S 70 E 31	N 88 E 31	S 42 E 49	S 55 E 49	N 79 W 22	S 28 E 15
	5 3^{46} a	**5** 7^{48} a	**5** 11^{48} a	**5** 3^{48} p	**5** 7^{38} p	**5** 11^{44} p	**14** 3^{48} a	**14** 7^{38} a	**14** 11^{45} a	**14** 3^{48} p	**14** 7^{39} p	**14** 11^{48} p
2½	N 38 W 51	S 88 E 20	0	N 32 W 39	N 69 E 14	0	S 07 W 78	S 84 W 39	S 73 E 44	S 01 E 69	N 85 W 32	0
5	N 40 W 60	S 85 E 23	0	N 26 W 51	S 63 E 14	0	S 05 W 76	S 65 W 44	S 61 E 47	S 02 E 68	N 61 W 39	S 23 W 23
10	N 36 W 59	S 70 E 23	0	N 20 W 42	0	S 26 E 28	S 15 E 57	S 58 W 43	S 72 E 38	S 10 E 63	N 61 W 38	S 03 W 17
15	N 16 W 46	S 74 E 33	0	N 35 W 41	N 77 E 23	S 16 E 37	S 33 E 56	S 46 W 43	S 20 E 32	S 29 E 56	N 35 W 43	S 01 E 16
20	N 29 W 33	S 45 E 36	N 03 W 17	N 33 W 61	S 44 E 23	S 25 E 30	S 40 E 64	S 43 W 42	S 06 E 31	S 35 E 59	N 24 W 42	S 39 E 22
25	N 22 W 16	S 35 E 36	N 06 E 17	N 29 W 52	S 21 E 23	S 38 E 26	S 37 E 61	S 66 E 35	S 10 E 43	S 46 E 54	N 11 E 37	S 36 E 27
27½	N 50 W 16	S 08 E 29	N 17 E 16	N 28 W 37	S 02 E 28	S 36 E 28	S 48 E 56	N 89 E 35	S 09 E 43	S 66 E 43	N 32 E 35	S 19 W 32
30	N 55 W 27	S 04 E 28	N 38 E 14	N 29 W 29	S 04 E 30	S 43 E 28	S 64 E 57	N 62 E 36	S 19 E 37	S 57 E 42	N 35 E 27	S 40 W 32
	6 3^{48} a	**6** 7^{45} a	**6** 11^{38} a	**6** 3^{46} p	**6** 7^{48} p	**6** 11^{39} p	**15** 3^{45} a	**15** 7^{48} a	**15** 11^{48} a	**15** 3^{44} p	**15** 7^{38} p	**15** 11^{45} p
2½	N 28 W 44	N 24 E 23	S 85 E 32	N 36 W 51	N 26 E 33	S 37 E 44	S 63 E 51	N 73 W 36	S 38 E 23	S 09 E 53	N 89 W 36	N 58 W 17
5	N 38 W 44	N 36 E 23	N 76 E 19	N 45 W 63	N 27 W 44	S 23 E 39	S 65 E 60	N 70 W 36	S 54 E 23	S 08 E 48	S 74 W 31	N 09 W 25
10	N 34 W 46	N 63 E 30	W 2	N 39 W 67	N 06 E 41	S 15 E 43	S 83 E 68	N 50 W 38	S 52 E 30	S 15 E 59	N 79 E 4	N 35 W 19
15	N 42 W 46	N 79 E 29	W 2	N 26 W 56	N 41	S 29 E 43	N 84 E 66	S 43 W 30	N 82 W 34	S 13 E 59	N 79 E 4	N 60 W 33
20	N 35 W 49	S 81 E 22	W 2	N 21 W 54	N 03 E 49	S 44 E 38	N 76 E 64	S 59 E 23	S 75 W 30	S 26 E 48	N 10 E 23	N 60 W 36
25	N 23 W 37	S 04 W 23	W 2	N 19 W 63	N 50	S 62 E 27	N 63 E 53	S 58 E 22	S 18 W 12	S 36 E 42	N 32 E 33	N 58 W 31
27½	N 19 W 25	S 23	W 2	N 10 W 59	N 35 W 48	N 30 W 15	N 56 E 42	S 78 E 23	S 15 W 19	S 50 E 32	N 11 E 27	W 21
30	N 14 W 16	S 14 W 18	W 2	N 20 W 52	N 20 W 41	N 30 W 15	S 88 E 39	N 60 E 24	S 08 W 19	S 59 E 26	N 16 E 27	S 50 E 7
	7 3^{38} a	**7** 7^{48} a	**7** 11^{45} a	**7** 3^{48} p	**7** 7^{45} p	**7** 11^{48} p	**16** 3^{48} a	**16** 7^{45} a	**16** 11^{48} a	**16** 3^{40} p	**16** 7^{48} p	**16** 11^{38} p
2½	N 18 W 37	N 05 E 39	S 71 E 47	N 26 W 51	N 18 W 33	S 47 E 51	S 33 E 60	S 77 W 33	N 28 W 33	S 02 W 51	S 39 W 39	N 43 W 23
5	N 30 W 48	N 15 E 47	S 56 E 44	N 36 W 50	N 62 W 44	S 44 E 50	S 24 E 63	S 71 W 33	N 37 W 30	S 05 W 38	S 42 W 36	N 61 W 28
10	N 36 W 40	N 14 W 43	S 45 E 43	N 27 W 49	N 55 W 47	S 28 E 44	S 26 E 67	S 70 W 29	N 38 W 24	S 06 W 33	S 35 W 32	N 47 W 30
15	N 46 W 35	N 14 W 43	S 63 E 31	N 44 W 58	N 55 W 47	S 25 E 43	S 35 E 41	S 77 W 21	N 47 W 38	S 64 E 31	S 32 W 32	N 53 W 19
20	N 46 W 38	N 50 W 31	S 70 E 19	N 35 W 65	N 43 W 37	S 11 E 61	S 21 E 32	N 73 E 7	N 51 W 38	S 55 E 24	S 35 E 32	S 85 W 22
25	N 28 W 35	N 51 W 19	N 58 W 11	N 16 W 68	N 37 W 30	S 18 E 59	S 05 E 27	N 73 E 7	N 60 W 27	S 53 E 23	S 80 E 30	S 67 W 16
27½	N 15 W 30	S 03 W 22	S 78 W 25	N 21 W 53	N 78 W 25	S 16 E 55	S 20 E 23	N 69 E 19	N 67 W 16	S 35 E 21	S 81 E 20	S 65 E 6
30	N 16 W 33	S 21 W 24	S 87 W 25	N 34 W 41	S 64 W 19	S 26 E 50	S 18 E 23	N 50 E 25	N 68 W 16	S 27 E 21	S 79 E 17	S 65 E 6
	8 3^{39} a	**8** 7^{39} a	**8** 11^{48} a	**8** 3^{45} p	**8** 7^{48} p	**8** 11^{45} p	**17** 3^{39} a	**17** 7^{48} a	**17** 11^{45} a	**17** 3^{48} p	**17** 7^{45} p	**17** 11^{48} p
2½	N 48 W 39	N 34 E 23	S 58 E 34	N 27 E 44	N 34 W 51	S 64 E 51	S 25 E 38	S 05 W 36	N 45 W 17	S 53 E 33	S 06 E 51	S 87 W 32
5	N 49 W 39	N 17 W 35	S 66 E 39	N 11 W 47	N 36 W 50	S 44 E 38	S 24 E 41	S 06 E 41	N 45 W 23	S 30 E 39	S 10 E 50	N 86 W 39
10	N 40 W 36	N 21 W 39	S 63 E 38	N 15 W 49	N 44 W 59	S 44 E 38	S 29 E 44	S 24 E 38	N 14 W 30	S 31 E 35	S 06 W 37	N 76 W 43
15	N 38 W 31	N 42 W 42	S 42 E 49	N 25 W 49	N 38 W 57	S 30 E 49	S 31 E 43	S 24 E 45	N 17 E 30	S 27 W 22	S 08 W 37	N 72 W 37
20	N 30 E 10	S 86 W 22	S 31 E 58	N 30 W 49	N 36 W 45	S 29 E 48	S 31 E 38	S 35 E 42	N 49 W 21	S 20 W 21	S 24 E 36	N 80 W 36
25	N 78 E 24	S 24 E 30	S 31 E 52	N 28 W 49	N 34 W 44	S 19 E 46	S 33 E 36	S 62 E 38	N 64 W 16	S 10 W 14	S 26 E 36	N 88 W 30
27½	N 79 E 30	S 31 E 30	S 28 E 40	N 27 W 48	N 70 W 32	S 10 E 46	S 33 E 30	S 53 E 37	N 67 W 16	S 08 W 14	S 40 E 30	N 83 W 30
30	N 86 E 24	S 45 E 31	S 45 E 39	N 27 W 48	N 61 W 31	S 10 E 56	S 40 E 26	S 63 E 37	N 55 W 22	S 14 W 14	S 38 E 29	N 74 W 27
	9 3^{48} a	**9** 7^{38} a	**9** 11^{44} a	**9** 3^{48} p	**9** 7^{39} p	**9** 11^{48} p	**18** 3^{39} a	**18** 7^{45} a	**18** 11^{48} a	**18** 3^{48} p	**18** 7^{48} p	**18** 11^{45} p
2½	N 09 E 39	N 43 W 51	S 61 E 39	N 15 W 39	N 01 W 67	N 47 E 39	S 13 W 17	S 28 E 47	N 88 W 23	0	S 23 E 51	N 71 W 23
5	N 89 E 39	N 46 W 50	S 73 E 48	N 31 W 39	N 10 W 68	N 88 E 41	S 24 E 28	S 28 E 50	N 86 W 33	0	S 18 E 54	S 89 W 23
10	N 68 W 42	N 36 W 59	S 50 E 55	N 36 W 50	N 23 W 67	S 73 E 43	S 30 E 22	S 27 E 50	N 82 W 36	S 19 E 28	S 17 E 49	S 85 W 17
15	N 70 W 49	N 41 W 57	S 43 E 50	N 30 W 62	N 24 W 69	S 44 E 38	S 53 E 12	S 23 E 50	N 83 W 24	S 13 E 37	S 32 E 52	N 89 E 2
20	N 67 W 51	N 38 W 59	S 42 E 53	N 34 W 66	N 26 W 65	S 30 E 49	S 33 E 12	S 23 E 49	S 37 E 19	N 54 W 24	S 30 E 42	S 40 E 30
25	N 66 W 53	N 38 W 43	S 51 E 37	N 34 W 64	N 24 W 66	S 27 E 48	S 18 W 13	S 45 E 48	N 33 E 18	N 2	S 31 E 40	S 67 E 30
27½	N 45 W 51	N 40 W 47	S 68 E 37	N 22 W 72	N 31 W 69	S 36 E 51	S 09 W 13	S 54 E 46	N 34 E 18	N 83 W 17	S 31 E 38	N 65 E 23
30	N 43 W 49	N 44 W 42	N 88 E 34	N 34 W 71	N 32 W 64	S 35 E 51	N 26 W 3	S 62 E 47	N 36 E 24	S 62 W 28	S 50 E 27	N 65 E 23
	10 3^{45} a	**10** 7^{48} a	**10** 11^{48} a	**10** 3^{48} p	**10** 7^{38} p	**10** 11^{39} p	**19** 3^{48} a	**19** 7^{38} a	**19** 11^{41} a	**19** 3^{48} p	**19** 7^{40} p	**19** 11^{48} p
2½	N 04 E 60	N 33 W 51	S 51 E 26	N 19 W 46	N 16 W 60	S 78 E 17	N 07 E 17	S 33 E 60	W 23	N 06 E 28	S 18 E 49	S 17 W 39
5	N 60	N 26 W 50	S 64 E 34	N 16 W 48	N 24 W 60	N 77 E 23	N 37 E 17	S 33 E 54	S 58 W 20	N 11 W 30	S 01 W 50	S 17 W 41
10	N 40 W 49	N 22 W 49	S 60 E 43	N 28 W 50	N 30 W 54	S 89 E 17	S 06 E 23	S 32 E 55	N 89 W 28	N 23 W 29	S 01 E 51	S 40 W 32
15	N 42 W 48	N 50 W 54	S 25 E 38	N 31 W 41	N 30 W 46	S 63 E 24	N 24 W 17	S 20 E 57	N 74 W 33	N 52 W 36	S 10 E 50	S 30 W 31
20	N 44 W 42	N 53 W 51	S 32 E 42	N 58 W 35	N 37 W 45	S 45 E 36	S 83 W 17	S 23 E 56	N 54 E 29	N 44 W 35	S 30 E 49	S 17 E 31
25	N 32 W 33	N 70 W 38	S 34 E 48	N 80 W 21	N 05 W 32	S 37 E 39	N 88 W 28	S 40 E 44	N 34 E 28	N 51 W 31	S 48 E 42	S 27 E 33
27½	N 28 W 27	S 77 W 26	S 46 E 47	N 22 E 21	N 04 W 26	S 40 E 41	N 27 W 27	S 35 E 43	N 24 E 29	N 35 W 38	S 60 E 35	S 55 E 29
30	N 32 E 18	N 80 W 20	S 29 E 49	N 33 E 21	N 21 W 26	S 41 E 44	N 23 E 16	S 50 E 36	N 26 E 27	N 34 W 42	S 64 E 35	N 78 E 17
	11 3^{48} a	**11** 7^{45} a	**11** 11^{48} a	**11** 3^{45} p	**11** 7^{48} p	**11** 11^{38} p	**20** 3^{45} a	**20** 7^{48} a	**20** 11^{39} a	**20** 3^{48} p	**20** 7^{38} p	**20** 11^{39} p
2½	S 32 W 23	N 33 W 39	S 71 E 23	0	N 52 W 51	S 38 E 33	N 60 W 23	S 26 E 51	0	N 43 W 25	S 33 E 51	S 12 W 50
5	S 41 W 23	N 43 W 47	S 65 E 25	0	N 48 W 60	S 40 E 33	N 29 W 17	S 25 E 45	S 38 W 30	N 42 W 30	S 32 E 50	S 07 W 48
10	S 18 E 28	N 44 W 49	S 64 E 42	0	N 26 W 62	S 26 E 40	N 35 W 33	S 14 E 68	S 06 W 27	N 42 W 42	S 49 E 44	S 12 W 48
15	S 23 E 36	N 33 W 43	S 54 E 47	N 55 W 17	N 20 W 53	S 20 E 47	N 23 W 32	S 26 E 34	N 11 E 3	N 37 W 43	S 33 E 36	S 20 W 48
20	S 22 E 38	N 17 W 30	S 56 E 47	N 55 W 17	N 15 W 45	S 20 E 47	N 65 W 32	S 24 E 34	S 17 E 16	N 48 W 43	S 34 E 20	S 12 E 37
25	S 16 E 38	N 16 W 19	S 48 E 46	N 36 W 16	N 18 W 36	S 21 E 42	N 50 W 38	S 50 E 22	N 12 E 4	N 34 W 44	S 31 E 10	S 42 E 30
27½	S 51 E 36	S 37 E 13	S 47 E 46	S 70 E 30	N 14 W 31	S 05 E 33	N 47 W 31	S 42 E 33	N 30 E 19	N 32 W 46	S 16 E 20	S 80 E 26
30	S 55 E 36	S 37 E 13	S 45 E 46	N 86 E 30	N 80 W 24	S 10 E 30	N 82 W 31	S 26 E 25	N 38 E 18	N 43 W 44	S 20 E 30	N 83 E 21

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

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Meter	21 3⁴⁸ a	21 7⁴⁵ a	21 11⁴⁸ a	21 3⁴⁴ p	21 7⁴⁸ p	21 11³⁸ p	30 3⁴⁵ a	30 7⁴⁸ a	30 11³⁸ a	30 3⁴⁴ p	30 7⁴² p	30 11⁴⁰ p
2½	N 54 W 28	S 35 E 44	S 10 W 33	N 35 W 44	S 31 E 33	S 09 E 55	S 30 E 46	N 60 W 30	0	S 16 E 36	0	N 55 W 23
5	N 64 W 33	S 35 E 47	S 04 W 30	N 40 W 42	S 44 E 25	S 10 E 56	S 20 E 51	N 63 W 30	N 38 W 39	S 10 E 48	S 87 W 17	N 49 W 28
10	N 59 W 46	S 78 E 38	S 05 W 32	N 35 W 46	S 44 E 16	S 10 E 59	S 20 E 50	N 40 W 29	N 46 W 46	S 24 E 47	S 65 W 17	N 49 W 39
15	N 57 W 43	N 86 E 21	S 02 E 29	N 45 W 49	N 31 E 18	S 10 E 46	S 32 E 36	N 60 W 32	N 45 W 48	S 33 E 46	S 38 W 22	N 48 W 47
20	N 70 W 38	S 74 E 13	N 50 E 19	N 41 W 47	N 50 W 2	S 32 E 33	S 34 E 31	N 45 W 30	N 39 W 47	S 35 E 42	S 27 W 22	N 37 W 46
25	N 58 W 30	S 44 E 13	N 37 E 19	N 36 W 46	N 50 W 2	S 32 E 24	S 31 E 30	N 49 W 25	N 53 W 37	S 34 E 38	S 87 E 24	N 59 W 38
27½	N 55 W 25	S 34 E 20	N 26 E 22	N 36 W 45	S 68 W 17	S 37 E 16	S 31 E 35	N 18 W 25	N 59 W 37	S 38 E 35	S 87 E 24	N 53 W 30
30	N 52 W 17	S 34 E 28	N 22 E 22	N 37 W 45	S 69 W 17	S 34 E 16	S 34 E 34	N 01 W 31	N 68 W 35	S 41 E 32	S 88 E 24	N 50 W 23
	22 3⁴⁰ a	**22** 7⁴⁸ a	**22** 11⁴⁵ a	**22** 3⁴⁸ p	**22** 7⁴⁰ p	**22** 11⁴⁸ p	**31** 3⁴⁸ a	**31** 7⁴⁵ a	**31** 11⁴⁸ a	**31** 3⁴⁵ p	**31** 7⁴⁵ p	**31** 11⁴⁸ p
2½	0	S 45 E 33	S 25 E 51	N 28 W 17	N 01 E 23	S 05 W 69	S 18 E 50	S 12 W 44	N 51 W 26	S 17 W 60	S 07 W 92	S 77 W 33
5	N 17 W 23	S 54 E 33	S 06 E 56	N 41 W 36	N 01 E 23	S 02 E 63	S 03 E 50	S 20 W 47	N 37 W 32	S 20 W 69	S 06 W 88	S 77 W 33
10	N 17 W 35	N 20 E 23	S 17 E 55	N 50 W 44	N 08 W 33	S 20 E 61	S 19 E 48	S 26 W 50	N 24 W 34	S 05 E 76	S 06 W 79	S 82 W 29
15	N 44 W 22	N 57 W 4	S 46 E 36	N 49 W 47	N 10 W 29	S 20 E 50	S 42 E 38	S 03 W 46	N 45 W 38	S 24 E 33	S 03 E 73	S 15 E 30
20	S 20 E 4	N 57 W 4	S 56 E 20	N 14 W 48	N 02 E 29	S 31 E 38	S 54 E 38	S 15 E 49	N 38 W 37	S 50 E 34	S 26 E 68	S 42 E 44
25	S 20 E 4	N 57 W 4	S 80 E 10	N 10 W 49	N .21	S 33 E 23	S 47 E 37	S 22 E 42	N 33 W 36	S 18 E 44	S 49 E 66	S 78 E 44
27½	S 20 E 4	N 57 W 4	S 74 E 10	N 14 W 49	N 15 W 21	S 30 E 23	S 35 E 35	S 35 E 46	N 20 W 22	S 18 E 44	S 47 E 65	S 67 E 47
30	N 36 W 21	N 57 W 4	S 75 E 10	N 15 W 49	N 18 W 21	S 40 E 19	S 35 E 35	S 44 E 46	N 13 W 22	S 15 E 43	S 45 E 64	S 63 E 48
	23 3³⁸ a	**23** 7⁴⁴ a	**23** 11⁴⁸ a	**23** 3⁴⁵ p	**23** 7⁴⁸ p	**23** 11⁴⁵ p	**1** 3³⁹ a	**1** 7⁴⁸ a	**1** 11⁴⁵ a	**1** 3⁴⁸ p	**1** 7⁴⁸ p	**1** 11⁴⁸ p
2½	S 76 W 23	S 59 E 28	S 36 E 44	N 13 W 33	N 37 E 33	S 26 E 60	S 48 E 46	S 32 E 67	N 63 W 26	N 22 E 33	S 01 W 76	S 65 W 39
5	S 86 W 23	S 63 E 25	S 26 E 51	N 29 W 33	N 27 E 39	S 29 E 60	S 59 E 40	S 36 E 66	N 65 W 26	N 25 E 33	S 10 E 74	S 65 W 39
10	S 77 W 33	N 36 E 17	S 26 E 59	N 55 W 39	N 29 W 39	S 27 E 58	S 39 E 38	S 22 E 73	N 53 W 25	N 12 W 36	S 20 E 81	S 56 W 43
15	S 67 W 29	N 50 W 24	S 50 E 58	N 39 W 31	N 20 W 49	S 36 E 66	S 39 E 36	S 37 E 71	N 52 W 17	S 08 W 6	S 22 E 78	S 27 W 37
20	S 40 W 22	N 70 W 18	S 34 E 33	N 40 W 38	N 48 W 47	S 37 E 44	S 18 E 48	S 40 E 59	N 30 W 16	N 68 W 33	S 36 E 58	S 26 E 38
25	N 73 E 6	W 2	S 34 E 27	N 26 W 43	N 51 W 46	S 05 E 31	S 23 E 49	S 48 E 58	N 31 E 26	S 80 W 30	S 35 E 56	S 72 E 49
27½	N 73 E 6	W 2	S 36 E 27	N 29 W 42	N 54 W 46	S 03 E 31	S 23 E 50	S 44 E 53	N 54 E 26	S 80 W 30	S 35 E 64	S 81 E 35
30	N 02 E 18	W 2	S 44 E 24	N 28 W 42	N 50 W 46	S 05 E 31	S 23 E 49	S 61 E 53	N 62 E 34	S 77 W 27	S 46 E 64	N 89 E 33
	24 3⁴⁸ a	**24** 7³⁹ a	**24** 11⁴⁸ a	**24** 3⁴⁸ p	**24** 7⁴² p	**24** 11⁴⁸ p	**2** 3³⁸ a	**2** 7⁴⁴ a	**2** 11⁴⁸ a	**2** 3³⁵ p	**2** 7⁴⁸ p	**2** 11⁴⁸ p
2½	S 19 E 23	N 29 E 33	S 51 E 59	N 35 W 23	N 60 W 44	S 27 E 51	N 10 W 23	S 45 E 55	S 47 W 33	N 43 W 47	S 51 E 44	S 70 W 83
5	S 12 W 17	N 26 E 33	S 43 E 61	N 33 W 20	N 38 W 50	S 34 E 50	N 24 E 23	S 35 E 69	S 56 W 33	N 43 W 50	S 48 E 38	S 56 W 37
10	S 14 W 20	N 24 W 37	S 44 E 60	N 44 W 20	N 40 W 49	S 34 E 59	N 43 W 17	S 35 E 69	S 53 W 38	N 38 W 49	S 48 E 43	S 23 W 33
15	S 10 W 29	N 62 W 37	S 46 E 59	N 39 W 37	N 40 W 49	S 19 E 58	N 83 W 16	S 36 E 67	N 13 W 24	N 53 W 43	S 10 E 31	N 28 E 4
20	N 10 E 26	N 61 W 21	S 36 E 37	N 18 W 38	N 50 W 46	S 19 E 56	S 30 E 3	S 39 E 54	N 09 E 44	N 50 W 42	S 14 E 31	N 81 E 18
25	N 02 E 26	S 80 W 22	S 31 E 29	N 17 W 45	N 50 W 46	S 08 E 44	S 30 E 3	S 42 E 44	N 26 E 50	N 51 W 42	S 15 E 31	N 66 E 18
27½	N 05 W 28	N 70 W 32	S 36 E 25	N 14 W 48	N 62 W 48	S 16 E 31	S 30 E 3	S 45 E 41	N 14 E 50	N 52 W 36	S 10 E 27	N 14 E 4
30	N 08 W 33	N 80 W 35	S 47 E 25	N 20 W 47	N 64 W 48	S 33 E 31	S 30 E 3	S 43 E 33	N 58 E 51	N 62 W 41	S 13 E 30	N 11 E 4
	25 3⁴⁵ a	**25** 7⁴⁸ a	**25** 11³⁸ a	**25** 3³⁹ p	**25** 7³⁸ p	**25** 11⁴⁴ p	**3** 3⁴⁸ a	**3** 7⁴⁴ a	**3** 11⁴⁴ a	**3** 3³⁰ p	**3** 7³⁸ p	**3** 11³⁸ p
2½	S 11 E 23	N 69 W 33	S 42 E 39	N 01 W 28	N 13 W 34	0	N 03 E 33	S 58 E 36	S 81 W 17	N 33 W 42	S 63 E 33	S 11 E 39
5	S 15 E 17	N 66 W 31	S 50 E 39	N 27 E 27	N 13 W 39	S 27 E 33	N 30 W 36	S 66 E 36	S 78 W 17	N 36 W 48	S 67 E 37	S 05 E 56
10	S 28 E 17	N 38 W 27	S 46 E 54	S 27 W 2	N 24 W 50	S 54 E 37	N 41 W 42	S 71 E 29	N 78 E 1	N 42 W 49	S 73 E 38	S 04 E 47
15	S 09 E 33	N 38 W 38	S 46 E 61	S 27 W 2	N 34 W 53	S 74 E 44	N 60 W 38	S 67 E 29	N 44 W 17	N 44 W 49	S 71 E 35	S 04 E 47
20	S 33 W 33	S 76 W 23	S 40 E 45	N 72 W 17	N 29 W 60	S 62 E 40	N 70 W 28	S 62 E 31	N 37 W 20	N 34 W 47	S 84 E 31	S 44 E 26
25	S 23 E 22	S 23 W 16	S 38 E 40	N 36 W 27	N 35 W 52	S 60 E 34	N 89 W 20	S 56 E 31	N 29 W 25	N 46 W 40	S 87 E 27	S 88 E 21
27½	N 74 E 23	S 02 W 18	S 29 E 37	N 21 W 36	N 36 W 39	S 44 E 26	S 86 W 20	S 50 E 31	N 19 W 29	N 46 W 29	S 87 E 16	S 86 E 5
30	N 73 E 17	S 06 W 18	S 27 E 37	N 20 W 36	N 44 W 37	S 21 E 26	S 65 W 18	S 50 E 19	N 16 W 32	N 48 W 32	N 65 W 11	S 67 E 27
	26 3⁴⁸ a	**26** 7⁴⁵ a	**26** 11⁴⁴ a	**26** 3⁴⁴ p	**26** 7⁴⁸ p	**26** 11³⁸ p	**4** 3⁴⁵ a	**4** 7⁴⁸ a	**4** 11⁴⁸ a	**4** 3⁴⁸ p	**4** 7³⁸ p	**4** 11⁴⁰ p
2½	N 33 W 17	N 15 W 39	S 63 E 44	N 65 W 14	N 03 W 51	S 79 E 23	N 81 W 39	S 05 E 51	S 05 W 60	N 86 W 44	S 07 E 89	S 09 E 66
5	N 33 W 17	N 06 W 37	S 56 E 44	N 68 W 23	N 15 W 60	S 52 E 28	N 48 W 51	S 24 E 60	S 07 W 50	N 87 W 60	S 17 W 69	S 11 E 12
10	S 86 W 14	N 05 W 32	S 59 E 38	N 65 W 20	N 21 W 59	S 54 E 27	N 48 W 50	S 21 E 59	S 06 W 48	S 79 W 68	S 09 W 67	S 24 E 64
15	S 33 E 1	N 32 W 38	S 63 E 29	N 04 E 23	N 26 W 57	S 86 E 22	N 17 W 36	S 60 E 54	S 18 E 47	S 76 W 57	S 12 E 60	S 28 E 54
20	S 09 E 23	N 58 W 38	S 64 E 22	N 21 W 22	N 40 W 59	S 45 E 22	N 13 W 21	S 08 E 52	S 55 E 52	N 65 W 45	S 14 E 37	S 44 E 51
25	S 82 E 1	N 16 W 31	S 52 E 28	N 16 E 22	N 27 W 58	S 20 E 21	N 31 W 21	S 21 E 37	N 79 E 38	N 58 W 44	S 26 E 39	S 46 E 40
27½	S 82 E 1	N 25 W 19	S 33 E 28	N 08 E 32	N 26 W 53	S 26 E 21	W 31	S 39 E 36	N 86 E 37	S 88 W 17	S 14 E 35	S 46 E 29
30	S 82 E 1	N 54 W 27	S 26 E 28	N 10 E 32	N 40 W 41	S 36 E 32	S 74 W 32	S 48 E 36	N 79 E 37	N 08 E 39	S 42 E 37	S 38 E 28
	27 3³⁸ a	**27** 7⁴⁸ a	**27** 11⁴⁴ a	**27** 3⁴⁸ p	**27** 7⁴² p	**27** 11⁴⁸ p	**5** 3³⁸ a	**5** 7⁴⁵ a	**5** 11⁴⁸ a	**5** 3⁴⁵ p	**5** 7⁴⁸ p	**5** 11⁴⁸ p
2½	S 37 W 31	N 55 W 39	N 82 E 33	S 78 E 17	N 22 W 39	0	S 89 W 41	S 77 E 33	S 12 E 60	S 77 W 23	0	S 14 E 53
5	S 17 W 30	N 45 W 41	S 87 E 39	S 26 E 14	N 34 W 22	0	S 81 W 33	S 69 E 44	S 30 E 69	N 78 W 23	0	S 21 E 69
10	S 06 W 27	N 57 W 43	S 88 E 43	S 28 E 14	N 36 W 32	N 09 E 17	S 81 W 36	E 43	S 33 E 67	N 25 W 39	N 16 E 33	S 10 E 67
15	S 10 E 24	S 75 W 21	S 79 E 43	0	N 30 W 38	S 09 W 1	S 48 E 34	S 01 W 39	S 30 E 60	N 32 W 42	N 34 W 27	S 29 E 41
20	S 44 E 36	N 44 W 25	S 76 E 30	S 81 E 23	N 14 W 59	S 50 E 14	S 53 E 34	S 35 E 31	S 86 E 39	N 45 W 43	N 66 W 25	S 31 E 38
25	S 22 E 18	N 02 W 20	S 46 E 30	N 51 E 13	N 15 W 67	S 09 W 1	S 79 E 33	S 58 E 43	S 88 E 38	N 06 W 43	N 87 W 25	S 28 E 37
27½	S 51 E 15	N 26 E 9	S 35 E 34	N 52 E 17	N 26 W 69	S 09 W 1	S 82 E 39	S 33 E 37	N 88 W 44	N 04 W 40	W 27	S 46 E 33
30	S 76 E 22	N 26 E 9	S 36 E 37	N 40 E 23	N 26 W 73	S 09 W 1	S 84 E 39	S 30 E 37	N 77 W 45	N 03 E 38	S 84 W 24	S 36 E 23
	28 3³⁸ a	**28** 7³⁸ a	**28** 11⁴² a	**28** 3⁴⁰ p	**28** 7⁴⁸ p	**28** 11⁴⁵ p	**6** 3³⁹ a	**6** 7³⁸ a	**6** 11⁴⁵ a	**6** 3⁴⁸ p	**6** 7⁴⁵ p	**6** 11⁴⁸ p
2½	S 17 E 30	N 34 W 31	N 23 E 14	S 41 E 46	N 79 W 30	N 55 W 17	S 74 W 30	N 62 E 23	S 13 E 76	N 62 W 20	0	S 55 E 70
5	S 06 E 30	N 41 W 33	N 10 W 14	S 31 E 47	N 70 W 37	N 44 W 17	S 85 W 33	N 42 E 23	S 13 E 74	N 65 W 30	N 05 W 33	S 40 E 79
10	S 30 E 39	N 62 W 27	0	S 30 E 42	N 60 W 42	N 43 W 17	N 89 W 32	N 25 W 33	S 15 E 81	N 63 W 31	N 34 W 44	S 46 E 66
15	S 21 E 43	N 61 W 32	N 13 W 14	S 30 E 43	N 48 W 43	S 81 W 17	N 83 W 36	S 58 W 18	S 40 E 51	N 34 W 44	N 31 W 47	S 47 E 58
20	S 30 E 35	N 46 W 31	S 32 W 14	S 40 E 40	N 50 W 38	S 84 W 22	S 82 W 37	S 35 W 15	S 38 E 49	N 33 W 43	N 48 W 38	S 42 E 49
25	S 56 E 19	N 33 W 23	S 32 W 25	S 46 E 39	N 28 W 38	S 73 W 22	S 09 E 38	S 16 E 15	S 40 E 44	N 11 W 43	N 48 W 31	S 24 E 48
27½	S 54 E 19	N 35 W 20	S 21 W 28	S 55 E 35	N 26 W 36	S 74 W 22	N 83 W 40	S 08 E 15	S 38 E 44	N 07 W 41	N 73 W 19	S 11 E 48
30	S 68 E 13	N 31 W 17	S 13 W 27	S 64 E 30	N 25 W 30	S 72 W 16	N 67 W 39	S 08 E 24	S 49 E 32	N 12 W 41	N 84 W 19	S 23 E 40
	29 3³⁸ a	**29** 7³⁸ a	**29** 11⁴⁴ a	**29** 3⁴⁸ p	**29** 7⁴⁸ p	**29** 11⁴⁵ p	**7** 3³⁸ a	**7** 7⁴⁴ a	**7** 11⁴⁸ a	**7** 3⁴⁸ p	**7** 7⁴⁸ p	**7** 11⁴⁸ p
2½	S 11 E 39	N 70 W 23	0	S 23 E 50	0	0	S 41 W 30	N 34 E 30	S 29 E 81	N 83 W 30	N 06 W 53	S 11 E 66
5	S 10 E 42	S 80 W 23	N 52 W 33	S 32 E 49	N 53 W 31	N 01 W 23	S 29 W 30	N 46 E 27	S 21 E 86	N 82 W 30	N 05 W 39	S 11 E 72
10	S 01 W 45	N 79 W 30	N 51 W 38	S 44 E 49	N 53 W 27	N 26 W 39	S 38 W 22	N 09 W 32	S 19 E 76	N 84 W 32	N 11 W 44	S 09 E 73
15	S 06 E 47	N 58 W 30	N 39 W 40	S 44 E 49	N 71 W 27	N 32 W 29	N 80 W 22	N 13 W 15	S 05 E 63	N 70 W 32	N 14 W 43	S 16 E 52
20	S 09 E 42	N 42 W 22	N 68 W 28	S 55 E 48	N 51 W 24	N 43 W 21	N 46 W 17	S 20 W 5	S 09 E 61	N 51 W 36	N 61 W 31	S 11 E 37
25	S 08 E 37	N 01 W 23	N 61 W 23	S 55 E 46	N 49 W 23	N 49 W 28	N 40 E 4	S 20 W 5	S 06 E 51	N 49 W 37	N 54 W 27	S 15 E 36
27½	S 21 E 33	N 21 E 17	S 84 W 25	S 55 E 46	N 62 W 28	N 56 W 28	N 40 E 4	S 63 E 17	S 09 E 44	N 47 W 38	N 57 W 19	S 15 E 35
30	S 41 E 27	N 05 W 12	S 57 W 18	S 69 E 41	N 25 E 33	N 55 W 14	N 02 E 24	S 65 E 30	S 28 E 55	N 50 W 36	N 70 W 20	S 39 E 26

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

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Meter	8 3^{48} a	8 7^{38} a	8 11^{44} a	8 3^{50} p	8 7^{44} p	8 11^{38} p	17 3^{38} a	17 7^{49} a	17 11^{38} a	17 3^{44} p	17 7^{38} p	17 11^{49} p
2½	S 23 W 33	N 21 W 23	S 49 E 55	N 58 W 39	N 31 W 44	S 45 E 51	0	S 09 E 34	N 07 E 39	N 10 W 66	N 03 W 60	N 07 E 78
5	S 26 W 39	N 21 W 39	S 36 E 60	N 66 W 34	N 34 W 46	S 44 E 60	N 62 W 26	S 04 E 39	N 03 W 60	N 36 W 77	N 15 W 77	N 21 W 70
10	S 13 W 35	N 25 W 44	S 35 E 54	N 86 W 24	N 41 W 41	S 53 E 36	N 33 W 38	S 17 E 38	N 33 W 59	N 23 W 71	N 14 W 75	N 25 W 77
15	N 80 W 16	N 57 W 21	S 26 E 53	N 55 W 11	N 38 W 36	S 29 E 36	N 50 W 38	S 10 E 26	N 14 W 46	N 25 W 73	N 07 W 64	N 22 W 73
20	N 50 W 20	S 21 E 8	S 24 E 48	N 18 E 19	N 37 W 22	S 26 E 30	N 39 W 42	S 14	N 10 W 45	N 23 W 69	N 09 W 62	N 23 W 67
25	N 21 W 24	S 21 E 8	S 24 E 42	N 20 E 26	N 50 W 11	S 25 E 34	N 69 W 31	N 10 W 10	N 23 W 55	N 22 W 70	N 06 W 51	N 20 W 63
27½	N 20 W 24	S 21 E 8	S 26 E 41	N 24 E 25	S 35 E 11	S 01 E 19	N 13 W 31	S 48 W 16	N 23 W 54	N 24 W 68	N 03 W 50	N 16 W 69
30	N 24 W 24	S 21 E 8	S 23 E 38	N 24 E 25	S 35 E 11	S 14 E 19	N 40 W 20	S 64 W 27	N 10 W 54	N 23 W 68	N 06 W 50	N 22 W 67
	9 3^{45} a	9 7^{48} a	9 11^{48} a	9 3^{48} p	9 7^{42} p	9 11^{40} p	18 3^{48} a	18 7^{48} a	18 11^{43} a	18 3^{49} p	18 7^{40} p	18 11^{38} p
2½	S 70 W 23	N 16 W 50	N 87 E 32	S 62 W 36	N 09 E 51	N 65 E 39	N 10 W 85	N 33 W 96	N 25 W124	N 28 W124	N 25 W 96	N 58 W 96
5	S 59 W 39	N 15 W 48	S 74 E 60	S 62 W 25	N 38 E 56	N 70 E 45	N 19 W 83	N 15 W 87	N 25 W132	N 33 W137	N 20 W110	N 43 W 86
10	S 28 W 39	N 51 W 43	S 69 E 53	S 57 W 19	N 17 E 59	N 76 E 44	N 29 W 79	N 07 W130	N 24 W132	N 44 W103	N 16 W104	N 43 W108
15	S 84 W 15	N 50 W 31	S 21 E 49	N 63 E 4	N 25 E 46	N 76 E 52	N 21 W 78	N 23 W 98	N 24 W116	N 38 W110	N 07 W 82	N 62 W 51
20	N 67 W 22	N 50 W 11	S 20 E 47	N 63 E 4	N 18 E 24	N 80 E 57	N 11 W 74	N 22 W109	N 22 W102	N 27 W 87	N 22 E 60	S 50 E 50
25	N 12 W 24	N 52 W 11	S 14 E 46	N 22 E 26	N 09 E 24	S 88 E 51	N 18 W 67	N 24 W 85	N 18 W 93	N 36 W102	S 39 E 49	S 62 E 44
27½	N 07 W 24	N 88 W 14	S 18 E 45	N 24 E 26	N 03 E 24	S 72 E 55	N 19 W 68	N 04 W 58	N 10 W101	N 56 W 96	S 35 E 70	S 46 E 40
30	N 01 E 24	N 84 W 13	S 17 E 40	N 04 E 28	N 20 E 24	S 64 E 60	N 06 W 69	N 29 W 73	N 105	N 03 W 93	S 15 E 87	S 58 E 38
	10 3^{38} a	10 7^{45} a	10 11^{48} a	10 3^{48} p	10 7^{48} p	10 11^{38} p	19 3^{39} a	19 7^{48} a	19 11^{38} a	19 3^{44} p	19 7^{38} p	19 11^{40} p
2½	S 53 E 44	N 14 W 60	N 72 E 33	0	N 25 W 44	N 23 W 23	N 48 W 84	0	0	N 43 W 39	N 87 E 26	S 16 E 39
5	S 32 E 39	N 04 W 50	N 81 E 39	0	N 21 W 44	N 47 W 28	N 30 W 95	0	N 19 W 26	N 41 W 44	N 58 E 26	S 30 E 39
10	S 23 E 35	N 30 W 49	N 86 E 38	N 63 W 14	N 14 W 47	N 56 W 27	N 27 W 95	N 55 E 26	N 50 W 25	N 48 W 49	S 80 W 3	S 24 E 28
15	S 30 W 32	N 45 W 67	N 87 E 38	N 50 W 17	N 22 W 51	N 01 W 32	N 39 W 70	N 13 E 25	S 36 E 4	N 45 W 45	N 86 E 25	S 06 E 16
20	N 07 W 31	N 20 W 40	S 33 E 21	N 29 W 28	N 15 W 47	N 10 E 22	N 47 W 73	S 37 W 4	N 64 W 13	N 50 W 42	S 64 E 17	N 23 W 7
25	N 14 W 40	N 22 W 40	S 20 E 21	N 30 W 27	N 16 W 38	N 14 E 16	N 46 W 67	S 37 W 4	N 56 W 11	N 47 W 48	S 17 E 17	N 23 W 7
27½	N 28 W 40	N 28 W 32	S 14 E 24	N 32 W 27	N 29 W 33	N 52 E 16	N 46 W 56	S 37 W 4	N 52 W 24	N 44 W 56	S 24 E 31	N 41 W 25
30	N 28 W 39	N 36 W 25	S 09 E 22	N 23 W 26	N 26 W 33	N 22 E 22	N 44 W 58	S 37 W 4	N 34 W 24	N 48 W 55	S 22 E 24	N 16 W 41
	11 3^{40} a	11 7^{38} a	11 11^{45} a	11 3^{45} p	11 7^{45} p	11 11^{48} p	20 3^{38} a	20 7^{45} a	20 11^{48} a	20 3^{44} p	20 7^{48} p	20 11^{39} p
2½	S 16 E 36	N 05 W 49	N 84 E 39	N 61 E 33	N 22 E 39	N 25 E 47	N 53 W 39	N 65 E 34	0	N 45 W 60	N 41 W 39	S 15 W 26
5	S 13 E 33	N 26 W 38	S 83 E 39	N 79 E 33	N 21 W 60	N 44 W 39	N 44 W 51	N 41 E 31	0	N 30 W 77	N 39 W 39	S 10 W 39
10	S 11 W 24	N 26 W 43	N 43 E 32	S 22 E 33	N 32 W 59	N 14 W 38	N 46 W 49	N 17 E 17	0	N 31 W 71	N 22 W 50	S 15 W 38
15	S 10 W 15	N 36 W 37	S 38 E 29	N 51 E 22	N 18 W 75	N 07 W 43	N 44 W 41	S 33 W 6	0	N 34 W 61	N 22 W 49	S 24 E 42
20	N 10 W 5	N 30 W 36	S 40 E 14	N 20 E 30	N 18 W 73	N 08 W 49	N 19 W 35	S 56 E 26	N 39 E 15	N 34 W 62	N 08 E 36	S 20 E 41
25	N 10 W 5	N 30 W 27	S 30 E 15	N 20 E 29	N 37 W 71	N 05 W 49	N 22 W 34	S 57 E 31	N 34 E 14	N 39 W 64	N 20 W 19	S 49 E 36
27½	N 70 W 18	N 31 W 20	S 08 E 22	N 09 E 38	N 35 W 70	N 45 W 46	N 08 E 31	S 55 E 38	N 58 E 26	N 18 W 60	N 40 W 19	S 80 E 23
30	N 70 W 30	N 24 W 27	S 08 E 22	N 38 W 44	N 37 W 69	N 44 W 42	N 36 W 18	S 53 E 36	N 46 E 25	N 36 W 42	N 23 W 14	N 89 E 30
	12 3^{38} a	12 7^{44} a	12 11^{38} a	12 3^{45} p	12 7^{48} p	12 11^{45} p	21 3^{44} a	21 7^{38} a	21 11^{44} a	21 3^{48} p	21 7^{44} p	21 11^{48} p
2½	N 43 W 23	N 57 W 60	N 23 W 39	N 57 W 39	N 23 W 39	N 15 W 39	N 66 W 39	N 53 W 51	0	N 08 W 85	N 30 W 69	S 18 E 51
5	N 35 W 23	N 55 W 65	N 16 W 51	N 01 E 51	N 50 W 51	N 14 W 60	N 68 W 39	N 53 W 38	0	N 19 W 83	N 30 W 72	S 38 E 60
10	N 20 E 23	N 45 W 63	N 14 W 49	N 21 W 59	N 42 W 68	N 20 W 59	N 56 W 50	N 45 W 37	0	N 14 W 76	N 26 W 67	S 40 E 49
15	N 36 W 44	N 50 W 65	N 08 W 36	N 23 W 58	N 29 W 75	N 23 W 57	N 46 W 64	N 11 W 32	0	N 14 W 74	N 28 W 59	S 40 E 47
20	N 06 W 48	N 45 W 61	N 08 E 40	N 46 W 66	N 34 W 55	N 30 W 65	N 53 W 56	N 14 E 32	0	N 16 W 71	N 42 W 50	S 21 E 46
25	N 13 W 49	N 38 W 52	N 06 W 57	N 38 W 64	N 24 W 53	N 29 W 63	N 38 W 55	N 16 W 13	0	N 16 W 63	N 30 W 28	S 40 E 56
27½	N 13 W 49	N 42 W 51	N 31 W 56	N 25 W 62	N 25 W 53	N 61 W 43	N 18 W 51	S 36 E 11	N 31 E 19	N 17 W 58	S 55 W 32	S 21 E 55
30	N 16 W 50	N 44 W 57	N 36 W 45	N 18 W 53	N 16 W 40	N 15 W 29	N 16 W 60	S 36 E 11	N 22 E 26	N 36 W 53	S 18 W 30	S 20 E 43
	13 3^{48} a	13 7^{38} a	13 11^{44} a	13 3^{39} p	13 7^{44} p	13 11^{38} p	22 3^{38} a	22 7^{45} a	22 11^{48} a	22 3^{38} p	22 7^{38} p	22 11^{44} p
2½	N 35 W 39	N 33 W 60	N 15 W 44	N 43 W 33	N 20 W 57	N 23 W 51	S 22 W 44	N 55 W 39	S 33 E 51	N 87 W 26	N 31 W 69	S 11 E 69
5	N 35 W 49	N 33 W 77	N 16 W 46	N 04 W 29	N 27 W 56	N 27 W 44	N 80 W 51	N 42 W 51	S 30 E 50	N 65 W 32	N 31 W 68	S 11 E 63
10	N 39 W 47	N 45 W 66	N 18 W 46	N 03 E 39	N 25 W 64	N 24 W 50	N 40 W 50	N 29 W 59	S 08 E 49	N 57 W 33	N 43 W 58	S 11 E 61
15	N 48 W 47	N 27 W 51	N 20 W 47	N 13 E 32	N 24 W 71	N 13 W 58	N 27 W 37	N 34 W 47	S 24 E 48	N 48 W 33	N 44 W 52	S 12 E 60
20	N 44 W 44	N 33 W 47	N 16 W 45	N 28 E 35	N 23 W 61	N 19 W 53	N 32 W 36	N 49 W 34	S 33 E 46	N 44 W 32	N 43 W 32	S 13 E 59
25	N 30 W 40	N 36 W 37	N 13 W 42	N 63 W 29	N 19 W 59	N 34 W 52	N 15 W 31	N 78 W 19	S 11 E 56	N 41 W 37	N 87 W 16	S 12 E 57
27½	N 19 E 18	N 47 W 28	N 14 W 29	N 88 W 22	N 20 W 52	N 44 W 32	N 01 E 31	N 86 W 19	S 21 E 44	N 14 W 32	S 66 W 19	S 21 E 58
30	S 36 E 15	N 11 W 18	S 15 E 16	S 05 E 10	N 20 W 51	N 51 W 33	N 27 E 30	S 80 W 31	S 30 E 44	N 17 E 30	S 68 W 19	S 25 E 51
	14 3^{45} a	14 7^{48} a	14 11^{48} a	14 3^{48} p	14 7^{48} p	14 11^{39} p	23 3^{48} a	23 7^{43} a	23 11^{49} a	23 3^{52} p	23 7^{44} p	23 11^{39} p
2½	N 76 E 33	N 35 W 51	N 33 W 51	N 67 E 33	N 17 W 39	N 05 W 60	0	N 43 W 39	S 37 E 49	0	N 33 W 46	S 53 E 39
5	N 26 W 39	N 34 W 60	N 33 W 50	N 70 E 33	N 14 E 69	N 09 W 65	0	N 55 W 51	S 41 E 54	0	N 41 W 48	S 48 E 44
10	N 36 E 39	N 33 W 68	N 36 W 37	S 86 E 38	N 13 E 67	N 05 W 58	S 04 W 19	N 50 W 53	S 38 E 55	N 79 W 26	N 33 W 53	S 49 E 59
15	N 58 E 21	N 18 W 57	N 23 W 42	S 57 E 40	N 05 W 69	N 53	S 06 E 26	N 27 W 30	S 36 E 63	N 26 W 34	N 37 W 48	S 35 E 58
20	N 56 E 20	N 21 W 55	N 20 W 36	S 52 E 36	N 24 W 73	N 02 W 55	S 07 W 18	N 40 W 20	S 38 E 56	N 38 W 33	N 30 W 46	S 35 E 52
25	N 26 E 20	N 10 W 50	N 40 W 35	S 45 E 31	N 02 W 61	N 06 E 45	S 10 W 21	S 83 W 11	S 39 E 54	N 02 W 38	N 34 W 38	S 19 E 44
27½	N 27 E 31	N 08 W 42	N 63 W 30	S 15 E 31	N 02 W 60	N 27 E 31	S 63 W 22	S 42 W 16	S 36 E 49	N 04 E 38	N 21 W 32	S 24 E 36
30	N 11 W 31	N 08 W 41	N 69 W 20	S 09 E 31	N 26 W 60	N 52 E 19	N 57 W 24	S 50 W 15	S 41 E 39	N 10 E 38	N 24 W 26	S 08 E 30
	15 3^{39} a	15 7^{45} a	15 11^{48} a	15 3^{45} p	15 7^{48} p	15 11^{38} p	24 3^{39} a	24 7^{38} a	24 11^{44} a	24 3^{48} p	24 7^{38} p	24 11^{40} p
2½	N 13 W 39	N 24 E 67	N 22 E 64	0	N 09 E 39	N 37 W 48	S 51 E 26	N 71 W 39	S 55 E 39	0	N 58 W 32	S 56 E 34
5	N 10 W 39	N 84	N 21 W 84	N 28 W 39	N 06 E 50	N 34 W 47	S 56 E 23	N 70 W 39	S 55 E 51	0	N 61 W 44	S 70 E 34
10	N 14 W 50	N 04 W 80	N 24 W 86	N 27 W 44	N 10 W 48	N 06 W 65	S 09 W 26	N 55 W 45	S 34 E 49	0	N 61 W 50	S 68 E 38
15	N 20 W 48	N 06 E 77	N 34 W 85	N 17 W 48	N 19 W 48	N 30 W 60	S 26 W 31	N 54 W 48	S 45 E 58	0	N 39 W 53	S 53 E 46
20	N 17 W 47	N 08 E 74	N 36 W 81	N 09 W 46	N 02 W 49	N 44 W 62	S 69 W 26	N 21 W 30	S 38 E 56	N 36 E 19	N 08 W 30	S 51 E 52
25	N 23 W 45	N 06 W 72	N 14 W 78	N 14 W 49	N 03 W 49	N 43 W 55	N 16 E 6	N 10 W 21	S 38 E 64	N 37 E 26	N 21 W 29	S 47 E 62
27½	N 26 W 45	N 03 E 74	N 26 W 73	N 21 W 49	N 10 W 47	N 25 W 54	N 34 E 21	N 27 W 20	S 40 E 54	N 49 E 28	N 32 W 26	S 45 E 56
30	N 06 W 33	N 03 E 74	N 24 W 72	N 24 W 48	N 12 W 47	N 33 W 41	N 52 E 30	N 14 W 10	S 28 E 49	N 49 E 28	N 37 W 25	S 42 E 55
	16 3^{39} a	16 7^{38} a	16 11^{42} a	16 3^{48} p	16 7^{45} p	16 11^{48} p	25 3^{39} a	25 7^{44} a	25 11^{48} a	25 3^{52} p	25 7^{48} p	25 11^{38} p
2½	S 85 W 39	S 48 E 34	0	N 52 E 29	S 43 E 39	0	S 68 E 26	N 26 W 19	S 57 E 19	S 87 E 34	N 18 W 39	0
5	S 79 W 34	S 34 E 31	N 11 W 26	N 71 E 29	S 29 E 39	0	S 48 E 26	N 40 W 34	S 58 E 23	S 83 E 34	N 16 W 46	0
10	S 76 W 17	S 34 E 24	N 08 W 31	S 72 W 3	S 20 E 50	0	S 05 W 32	N 47 W 33	S 46 E 25	S 57 E 30	N 51 W 33	0
15	N 77 E 5	S 12 E 33	N 43 W 31	S 74 W 27	S 14 E 48	N 33 W 26	S 08 E 25	N 50 W 33	S 25 E 38	S 24 E 24	N 28 W 37	0
20	N 77 E 5	S 21 E 32	N 45 W 31	S 07 W 26	S 25 E 66	N 45 W 25	S 13 W 21	N 36 W 32	S 23 E 38	S 17 E 17	N 26 W 49	0
25	N 67 W 21	S 30 E 37	N 56 W 38	N 43 W 1	S 62 E 75	S 40 E 4	N 19 W 7	N 20 W 26	S 28 E 42	N 51 E 24	N 19 W 75	S 43 E 26
27½	N 66 W 30	S 27 E 36	N 44 W 23	N 43 W 1	S 18 E 44	N 03 W 18	N 19 W 7	N 06 W 23	S 24 E 36	N 17 E 26	N 01 W 34	S 53 E 26
30	N 63 W 38	S 27 E 22	N 46 W 23	N 43 W 1	S 18 E 43	N 04 E 33	N 19 W 7	N 16 E 16	S 32 E 31	N 01 E 26	N 06 W 33	S 47 E 31

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

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Meter	26 3⁴⁰ a	26 7³⁸ a	26 11⁴⁹ a	26 3⁴⁸ p	26 7⁴⁴ p	26 11⁴⁸ p	8 3⁴⁸ a	8 7⁴⁸ a	8 11⁴⁵ a	8 3⁴⁸ p	8 7⁴⁵ p	8 11³⁹ p
2½	S 25 E 29	N 35 W 51	N 57 E 44	S 53 E 51	N 33 W 39	N 38 W 26	N 40 W 23	N 48 W 36	S 28 E 58	S 77 W 44	N 33 W 44	S 38 E 47
5	S 24 E 39	N 34 W 50	N 33 E 31	S 63 E 50	N 11 W 64	N 41 W 32	N 49 W 33	S 48 E 2	S 30 E 58	S 28 W 33	N 36 W 47	S 34 E 49
10	S 02 W 38	N 31 W 59	N 52 E 24	S 65 E 59	N 01 W 42	N 51 W 38	N 69 W 32	N 73 W 22	S 41 E 65	S 42 W 29	N 09 W 47	S 40 E 49
15	S 42 W 28	N 34 W 67	S 44 W 6	S 54 E 47	N 04 E 38	S 45 E 7	N 81 W 38	N 82 W 32	S 20 E 72	N 06 E 34	N 13 W 43	S 34 E 49
20	N 01 W 9	N 35 W 65	S 44 W 6	S 48 E 41	N 05 W 51	N 50 E 51	S 89 W 31	N 60 W 32	S 12 E 51	N 63 E 4	N 12 W 38	S 26 E 50
25	N 01 W 9	N 30 W 54	S 24 W 28	S 64 E 32	N 09 W 48	N 18 E 49	S 89 W 31	N 55 W 20	S 27 E 49	S 83 E 18	N 10 W 30	S 24 E 48
27½	N 43 W 22	N 16 W 53	S 38 W 36	S 44 E 15	N 13 W 54	S 51 W 42	S 80 W 27	N 51 W 21	S 31 E 58	N 63 E 4	N 60 W 31	S 14 E 46
30	N 40 W 25	N 10 W 41	S 02 W 42	N 57 W 19	N 21 W 60	S 38 W 22	S 77 W 27	N 45 W 31	S 35 E 33	N 16 W 17	N 72 W 31	S 14 E 41
	27 3³⁹ a	**27 7⁴⁸ a**	**27 11³⁸ a**	**27 3⁴⁹ p**	**27 7³⁹ p**	**27 11⁴⁰ p**	**9 3³⁸ a**	**9 7⁴⁸ a**	**9 11⁴⁸ a**	**9 3⁴⁵ p**	**9 7⁴⁸ p**	**9 11⁴⁶ p**
2½	S 16 E 44	N 21 W 39	N 33 W 39	S 23 E 64	S 53 E 26	S 68 E 51	S 42 W 20	N 41 W 39	S 45 E 50	0	N 33 W 47	S 53 E 23
5	S 27 E 51	N 23 W 39	N 56 W 39	S 14 E 70	S 30 E 51	S 14 W 39	N 88 W 25	N 43 W 44	S 36 E 49	0	N 30 W 44	S 51 E 33
10	S 31 E 63	N 30 W 45	S 60 W 25	S 04 E 65	S 11 W 43	S 31 W 39	N 71 W 16	N 34 W 38	S 36 E 49	0	N 17 W 38	S 59 E 39
15	S 36 E 58	N 26 W 46	N 87 W 24	S 10 E 74	S 14 W 37	S 81 W 28	S 88 E 2	N 33 W 31	S 30 E 49	0	N 20 W 36	S 46 E 43
20	S 24 E 65	N 24 W 52	N 31 W 38	S 13 E 69	S 20 W 22	S 68 W 40	S 88 E 2	N 22 W 28	S 24 E 49	N 56 W 17	N 10 W 31	S 37 E 38
25	S 26 E 63	N 27 W 56	N 15 W 37	S 11 E 68	S 63 W 8	S 72 W 37	N 17 W 17	N 30 W 19	S 20 E 46	N 36 W 23	N 07 W 29	S 18 E 38
27½	S 29 E 62	N 26 W 61	N 21 W 37	S 08 E 67	N 08 W 13	S 59 W 36	S 88 E 2	N 32 W 19	S 22 E 44	N 16 W 30	N 05 W 29	S 15 E 30
30	S 16 E 53	N 24 W 60	N 16 W 22	S 45 E 59	N 08 W 13	S 30 W 24	N 17 W 17	N 50 W 12	S 14 E 41	N 14 W 16	N 08 W 21	S 13 E 30
	28 3⁴⁸ a	**28 7⁵⁰ a**					**10 3³⁸ a**	**10 7⁴⁵ a**	**10 11⁴⁸ a**	**10 3⁴⁸ p**	**10 7⁴⁸ p**	**10 11⁴⁸ p**
2½	S 48 E 67	N 07 E 26					S 23 E 23	N 25 W 41	S 61 E 37	0	N 13 W 44	N 55 W 30
5	S 35 E 75	N 24 W 34					S 17 W 8	N 34 W 47	S 64 E 38	S 11 E 33	N 14 W 46	S 74 E 30
10	S 37 E 81	N 06 E 33					N 17 E 1	N 30 W 38	S 80 E 38	S 15 E 32	N 34 W 47	S 74 E 39
15	S 26 E 74	N 26 E 33					N 17 E 1	N 21 W 36	S 69 E 41	S 25 W 27	N 43 W 40	S 37 E 43
20	S 30 E 72	N 15 W 37					N 17 E 1	N 11 W 30	S 40 E 45	S 64 E 16	N 22 W 26	S 29 E 47
25	S 41 E 69	N 16 W 35					N 23 E 14	N 12 W 25	S 39 E 44	S 28 E 21	N 05 W 26	S 27 E 47
27½	S 31 E 63	N 11 E 35					N 11 W 23	N 27 W 22	S 34 E 46	S 14 E 21	N 18	S 14 E 47
30	S 44 E 62	N 13 E 46					N 03 W 23	N 36 W 19	S 32 E 48	N 08 W 6	S 25 E 13	S 21 E 46
					2 7³⁹ p	**2 11⁴⁴ p**	**11 3⁴⁵ a**	**11 7³⁸ a**	**11 11⁴² a**	**11 3⁴⁸ p**	**11 7⁴⁴ p**	**11 11⁴⁸ p**
2½					S 23 E 48	S 15 E 45	S 15 E 23	N 28 W 41	N 70 E 23	S 26 E 30	N 19 W 28	S 03 E 23
5					S 11 E 75	S 05 E 49	S 12 E 30	N 38 W 39	N 73 E 28	S 35 E 33	N 25 W 28	S 01 E 23
10					S 05 E 73	S 24 E 49	S 08 W 30	N 24 W 42	S 89 E 22	S 45 E 37	N 35 W 22	N 01 W 1
15					S 10 E 70	S 15 E 51	S 11 W 32	N 13 W 38	S 86 E 27	S 32 E 38	N 38 W 16	S 06 E 23
20					S 20 E 58	S 16 E 49	N 45 E 24	N 12 W 37	S 34 E 36	S 04 E 28	N 30 E 22	S 14 E 33
25					S 11 E 57	S 21 E 49	N 05 W 4	N 01 W 31	S 27 E 36	S 10 E 23	N 13 E 29	S 28 E 37
27½					S 23 E 57	S 26 E 48	N 05 W 4	N 26	S 24 E 36	S 45 E 23	N 14 E 32	S 11 E 32
30					S 18 E 45	S 37 E 47	N 05 W 4	N 15 E 24	S 20 E 33	S 47 E 14	N 11 E 24	S 21 E 31
	3 3⁴⁸ a	**3 7⁴⁸ a**	**3 11⁴⁵ a**	**3 3³⁸ p**	**3 7⁴⁵ p**	**3 11³⁹ p**	**12 3⁴⁸ a**	**12 7⁴⁵ a**	**12 11⁴⁸ a**	**12 3⁴⁵ p**	**12 7⁴⁰ p**	**12 11⁴² p**
2½	0	S 35 E 62	S 45 E 39	N 33 W 58	S 33 E 44	S 28 E 58	S 19 E 23	N 18 W 23	0	S 34 E 33	N 16 W 23	0
5	N 26 W 23	S 23 E 78	S 47 E 44	N 23 W 58	S 39 E 44	S 28 E 47	S 35 E 33	N 19 W 30	0	S 32 E 36	N 17 E 23	0
10	N 49 W 33	S 27 E 68	S 65 E 47	N 13 W 65	N 40 E 33	S 28 E 46	S 37 E 32	N 06 W 30	0	S 20 E 35	N 07 E 28	0
15	N 27 E 22	S 34 E 64	S 60 E 49	N 17 W 54	S 59 E 43	S 17 E 45	S 23 E 41	N 06 W 29	S 45 E 17	S 15 E 36	N 07 W 22	0
20	N 40 E 22	S 33 E 63	S 61 E 49	N 17 W 52	S 46 E 31	S 12 W 38	S 27 E 40	N 11 E 29	S 45 E 23	S 12 E 38	N 29 W 22	0
25	S 49 E 30	S 44 E 61	S 64 E 46	N 11 W 57	S 38 E 31	S 04 E 43	S 32 E 38	N 32 W 32	S 43 E 22	S 13 E 27	N 15 W 32	0
27½	N 70 E 23	S 43 E 56	S 69 E 41	N 19 W 49	S 30 E 31	S 28 E 42	S 40 E 34	N 04 W 31	S 01 W 28	S 02 W 19	N 09 W 32	0
30	N 83 E 23	S 50 E 56	S 79 E 41	N 07 W 49	S 44 E 30	S 30 E 21	S 44 E 23	N 02 W 20	S 04 W 27	S 01 E 19	N 11 E 25	0
	4 3⁴⁰ a	**4 7⁴⁸ a**	**4 11⁴⁸ a**	**4 3⁴⁵ p**	**4 7⁴⁴ p**	**4 11⁴⁵ p**	**13 3⁴⁸ a**	**13 7⁴⁸ a**	**13 11⁴⁵ a**	**13 3³⁸ p**	**13 7⁴⁵ p**	**13 11³⁸ p**
2½	N 50 W 41	S 43 E 44	S 08 E 58	N 58 W 58	S 39 W 39	S 03 E 58	N 89 E 33	N 08 W 48	N 03 W 23	S 43 E 48	N 37 W 23	N 07 E 39
5	N 65 W 48	S 39 E 43	S 14 E 75	N 58 W 58	S 37 W 44	S 09 W 58	N 88 E 36	N 08 E 58	N 29 E 23	S 34 E 43	N 42 W 33	N 08 E 47
10	N 75 W 53	S 32 E 45	S 11 E 64	N 53 W 56	N 30 W 44	S 74	S 39 E 29	N 02 E 57	N 31 E 17	S 35 E 46	N 39 W 32	N 18 W 43
15	N 75 W 45	S 28 E 47	S 07 E 58	N 37 W 43	N 13 W 39	S 25 E 54	S 39 E 29	N 09 W 55	N 29 E 16	S 25 E 45	N 27 W 32	N 05 E 31
20	N 47 W 55	S 42 E 46	S 18 E 51	N 18 W 54	N 66 E 34	S 27 E 61	S 30 E 29	N 49	S 31 W 2	S 20 E 38	N 25 W 38	S 82 W 23
25	N 31 W 64	S 31 E 47	S 25 E 49	N 22 W 52	N 55 E 33	S 39 E 60	S 28 E 23	N 02 E 46	N 33 W 16	S 25 E 37	N 20 W 38	S 09 E 9
27½	N 34 W 32	S 28 E 46	S 31 E 42	N 28 W 39	S 06 E 34	S 51 E 36	S 36 E 14	N 08 W 39	N 34 W 22	S 06 E 24	N 07 W 38	S 60 W 14
30	N 09 W 19	S 30 E 46	S 54 E 37	N 17 E 18	S 14 E 44	S 52 E 36	S 36 E 14	N 03 E 39	N 26 W 22	S 06 E 24	N 17 E 28	S 38 W 16
	5 3³⁹ a	**5 7⁴⁵ a**	**5 11⁴⁸ a**	**5 3⁴⁸ p**	**5 7⁴⁸ p**	**5 11⁴⁸ p**	**14 3³⁸ a**	**14 7⁴⁸ a**	**14 11⁴⁸ a**	**14 3⁴⁸ p**	**14 7⁴⁸ p**	**14 11⁴⁶ p**
2½	S 79 W 33	S 21 E 42	S 15 E 76	N 08 W 39	N 12 E 39	S 18 E 67	S 74 E 38	N 08 W 44	N 15 W 53	S 32 E 33	N 78 W 23	N 48 W 33
5	N 73 W 33	S 13 E 22	S 15 E 65	N 33 W 39	N 17 E 33	S 24 E 63	S 70 E 40	N 10 W 44	N 14 W 58	S 44 E 36	0	N 29 W 44
10	N 63 W 36	S 18 E 36	S 20 E 64	N 37 W 41	N 15 W 32	S 32 E 61	S 58 E 49	N 10 W 45	N 22 W 57	N 63 E 22	N 61 W 17	N 28 W 38
15	N 65 W 38	S 14 E 36	S 24 E 62	N 44 W 41	N 15 E 28	S 35 E 59	S 59 E 43	N 03 E 31	N 24 W 54	N 52 E 33	S 61 E 1	N 40 W 28
20	N 55 W 38	S 25 E 31	S 25 E 49	N 12 W 31	S 10 W 8	S 29 E 52	S 62 E 34	N 25 W 38	N 27 W 48	N 36 E 44	S 61 E 1	N 32 W 31
25	N 30 W 38	S 19 E 39	S 29 E 48	N 18 E 31	N 86 W 23	S 46 E 43	S 53 E 37	N 23 W 37	N 54 W 42	N 30 E 43	S 61 E 1	N 26 W 31
27½	N 19 W 31	S 21 E 41	S 48 E 46	N 30 E 38	S 87 W 30	S 30 E 43	S 34 E 40	N 10 W 38	N 83 W 37	N 37 E 38	S 65 E 17	N 39 W 19
30	N 31	S 26 E 44	S 50 E 44	N 32 E 31	S 80 W 33	N 57 E 36	S 28 E 43	N 20 W 37	N 52 W 29	N 36 E 31	S 61 E 1	N 54 W 19
	6 3⁴⁵ a	**6 7³⁸ a**	**6 11⁴⁵ a**	**6 3⁴⁸ p**	**6 7⁴⁴ p**	**6 11⁴⁸ p**	**15 3³⁸ a**	**15 7⁴⁴ a**	**15 11⁴⁵ a**	**15 3⁴⁹ p**	**15 7⁴⁸ p**	**15 11⁴⁸ p**
2½	N 59 W 44	N 43 W 33	S 15 E 51	N 53 W 30	N 38 W 23	S 43 E 39	0	S 83 W 14	N 36 W 47	0	S 08 E 44	N 43 W 33
5	N 50 W 44	N 18 W 36	S 56 E 48	N 52 W 33	N 17 W 28	S 41 E 41	0	S 80 W 17	N 27 W 47	0	S 15 E 48	N 21 W 33
10	N 39 W 43	N 36 W 39	S 52 E 52	N 40 W 32	N 08 E 19	S 40 E 43	0	S 84 W 17	N 22 W 43	0	S 24 E 47	N 39
15	N 43 W 47	N 41 W 38	S 54 E 55	N 40 E 30	S 06 E 3	S 27 E 40	N 85 E 14	S 89 W 19	N 22 W 43	0	S 22 E 52	N 23 W 31
20	N 38 W 46	N 12 W 31	S 40 E 48	N 26 W 21	S 06 E 3	S 27 E 40	0	N 85 E 3	N 22 W 42	0	S 29 E 50	S 11 E 8
25	N 42 W 37	N 21 W 19	S 32 E 49	N 20	S 06 E 3	S 31 E 37	S 02 W 20	N 85 E 3	N 12 W 37	0	S 52 E 43	S 78 E 18
27½	N 15 W 30	N 10 W 19	S 20 E 42	N 25	S 79 W 23	S 34 E 37	S 32 W 14	N 75 W 16	N 24 W 30	S 07 W 17	S 38 E 42	S 87 E 17
30	N 12 W 30	N 12 W 19	S 20 E 39	N 12 W 25	S 84 W 25	S 34 E 34	S 26 W 17	N 73 W 19	N 32 W 25	S 09 W 28	S 34 E 41	N 89 E 20
	7 3⁴⁸ a	**7 7⁴⁵ a**	**7 11³⁸ a**	**7 3⁴⁹ p**	**7 7³⁸ p**	**7 11³⁹ p**	**16 3⁴⁵ a**	**16 7³⁸ a**	**16 11⁴⁸ a**	**16 3⁴⁸ p**	**16 7³⁹ p**	**16 11⁴⁸ p**
2½	N 12 E 17	N 01 E 23	S 53 E 50	N 18 E 17	N 13 W 44	S 24 E 58	N 01 W 33	S 43 E 39	N 33 W 42	0	S 30 E 50	0
5	N 40 E 23	N 14 W 17	S 53 E 50	N 03 W 25	N 17 W 47	S 23 E 65	N 01 E 33	S 52 E 44	N 21 W 33	0	S 23 E 66	0
10	N 13 E 20	S 14 E 1	S 49 E 49	N 24 W 31	N 24 W 38	S 21 E 70	N 06 E 32	S 49 E 45	N 32 W 37	0	S 16 E 60	S 20 W 17
15	N 77 W 20	N 46 W 17	S 53 E 49	N 20 W 39	N 06 W 35	S 27 E 67	N 10 E 21	S 54 E 43	N 27 W 35	0	S 26 E 62	S 19 W 17
20	N 74 W 20	N 44 W 22	S 49 E 46	N 18 W 40	N 15 W 38	S 30 E 60	S 09 W 8	S 55 E 42	N 24 W 38	0	S 26 E 60	S 16 W 22
25	N 05 W 16	N 52 W 22	S 50 E 46	N 16 W 41	N 69 W 35	S 30 E 58	S 07 W 25	S 44 E 46	N 16 W 37	S 30 W 23	S 29 E 60	S 68 E 23
27½	N 05 W 22	N 33 W 15	S 63 E 41	N 16 W 43	N 66 W 19	S 22 E 52	S 01 W 35	S 40 E 39	N 24 W 27	S 32 W 23	S 30 E 56	S 73 E 23
30	N 02 W 22	S 88 W 16	S 62 E 41	N 18 W 43	N 74 W 19	S 15 E 42	S 07 E 34	S 43 E 32	N 25 W 19	S 41 W 23	S 31 E 47	N 18 E 3

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	**17** 3^{48} a	**17** 7^{45} a	**17** 11^{48} a	**17** 3^{44} p	**17** 7^{38} p	**17** 11^{39} p	**26** 3^{45} a	**26** 7^{38} a	**26** 11^{48} a	**26** 3^{48} p	**26** 7^{38} p	**26** 11^{48} p
2½	N 29 W 53	S 42 E 48	N 83 W 25	N 66 W 39	S 33 E 60	S 27 W 37	S 23 E 23	N 33 W 69	N 02 E 33	S 12 W 30	N 15 W 39	N 15 W 47
5	N 61 W 52	S 42 E 33	N 75 W 33	N 71 W 44	S 44 E 60	S 34 W 37	S 41 E 23	N 33 W 68	N 06 W 39	S 01 E 33	N 27 W 39	N 16 W 50
10	N 68 W 46	S 45 E 57	N 57 W 32	N 57 W 46	S 48 E 58	S 16 E 39	S 44 E 33	N 24 W 58	N 44 W 42	S 34 E 41	N 20 W 32	N 08 W 47
15	N 66 W 44	S 30 E 64	N 66 W 38	N 52 W 41	S 44 E 66	S 40 E 38	S 41 E 32	N 23 W 60	N 87 W 36	S 15 E 38	N 15 W 35	N 07 W 47
20	N 57 W 43	S 32 E 71	S 60 W 29	S 60 E 5	S 44 E 73	S 17 E 38	S 50 E 21	N 31 W 58	N 74 W 37	S 14 E 38	N 21 W 38	N 19 W 42
25	N 56 W 35	S 43 E 69	S 77 E 9	S 60 E 5	S 40 E 70	S 70 E 38	S 54 E 18	N 18 W 53	N 45 W 35	S 34 E 43	N 04 W 38	N 46 W 37
27½	N 63 W 30	S 42 E 59	N 64 E 23	S 40 W 14	S 35 E 73	S 82 E 36	S 24 E 15	N 16 W 46	N 34 E 30	S 26 E 43	N 07 W 38	N 36 W 30
30	N 84 W 30	S 45 E 48	N 63 E 31	S 59 W 20	S 30 E 59	S 71 E 36	N 40 W 6	N 22 W 41	S 71 W 35	S 24 E 37	N 12 W 37	N 34 W 30
	18 3^{48} a	**18** 7^{48} a	**18** 11^{45} a	**18** 3^{48} p	**18** 7^{45} p	**18** 11^{38} p	**27** 3^{48} a	**27** 7^{45} a	**27** 11^{48} a	**27** 3^{45} p	**27** 7^{38} p	**27** 11^{39} p
2½	N 47 W 39	S 56 E 39	0	N 39 W 51	S 50 E 30	S 33 E 33	E 25	N 33 W 60	N 23 W 39	S 48 E 39	0	N 21 W 39
5	N 48 W 41	S 69 E 39	0	N 41 W 60	S 59 E 33	S 26 E 27	N 38 E 17	N 31 W 60	N 25 W 41	S 23 E 39	0	N 54 W 55
10	N 38 W 38	S 70 E 49	0	N 46 W 55	S 68 E 38	S 26 E 36	N 55 E 19	N 18 W 68	N 24 W 47	S 23 E 43	N 07 E 14	N 34 W 59
15	N 37 W 20	S 80 E 48	0	N 39 W 40	S 45 E 47	S 34 E 26	N 14 E 16	N 22 W 65	N 17 W 47	S 24 E 38	0	N 40 W 67
20	S 39 E 9	S 60 E 46	N 22 E 33	N 34 W 38	S 41 E 47	S 35 E 21	N 24 E 16	N 22 W 63	N 56 W 45	S 26 E 31	0	N 39 W 65
25	S 54 E 20	S 35 E 53	N 41 E 22	N 28 W 33	S 34 E 46	S 22 E 9	N 19 E 16	N 34 W 52	N 54 W 42	S 35 E 31	0	N 32 W 58
27½	S 54 E 20	S 29 E 52	N 23 E 39	N 44 W 24	S 23 E 49	N 23 W 14	N 24 W 22	N 38 W 40	N 36 W 40	S 08 W 31	N 04 E 20	N 26 W 53
30	S 54 E 20	S 27 E 52	N 16 E 29	N 45 W 16	S 23 E 49	N 23 W 14	N 34 W 19	N 38 W 39	N 62 W 40	S 30 W 38	N 29 E 17	N 38 W 45
	19 3^{38} a	**19** 7^{48} a	**19** 11^{48} a	**19** 3^{48} p	**19** 7^{48} p	**19** 11^{45} p	**28** 3^{48} a	**28** 7^{48} a	**28** 11^{45} a	**28** 3^{48} p	**28** 7^{45} p	**28** 11^{38} p
2½	N 66 W 51	N 24 E 17	S 85 E 17	N 67 W 51	N 43 W 30	S 04 E 23	N 01 W 30	N 37 W 33	N 33 W 67	N 11 E 25	S 55 W 23	N 41 W 39
5	N 66 W 50	N 55 E 23	N 87 E 23	N 57 W 54	N 50 W 30	S 55 E 33	N 02 E 33	N 35 W 39	N 34 W 75	N 05 E 28	S 47 W 33	N 54 W 39
10	N 65 W 42	N 87 E 23	S 86 E 17	N 56 W 53	N 27 W 16	S 24 E 44	N 04 W 32	N 25 W 46	N 31 W 55	S 06 W 3	S 21 W 22	N 51 W 33
15	N 57 W 36	S 59 E 30	S 73 E 13	N 45 W 52	S 59 E 18	S 23 E 49	N 02 W 28	N 26 W 47	N 46 W 53	S 24 E 18	S 17 E 22	N 71 W 24
20	N 32 W 36	S 25 E 33	S 74 E 13	N 35 W 53	S 35 E 15	S 35 E 47	N 22 W 28	N 14 W 46	N 48 W 40	S 25 E 18	S 12 E 39	N 83 W 24
25	N 06 W 31	S 15 E 29	S 72 E 13	N 35 W 44	S 25 E 21	S 34 E 42	N 07 W 31	N 01 W 45	N 51 W 38	S 30 E 17	S 17 E 43	S 50 E 10
27½	N 06 W 28	S 13 E 29	S 70 E 13	N 38 W 44	S 14 E 24	S 32 E 42	N 08 E 34	N 09 E 45	N 73 W 31	S 31 E 17	S 25 E 43	S 50 E 10
30	N 10 W 27	S 05 E 29	S 62 E 13	N 34 W 39	S 04 E 24	S 30 E 37	N 13 E 37	N 27 E 42	N 71 W 30	S 25 E 21	S 30 E 38	S 50 E 10
	20 3^{38} a	**20** 7^{40} a	**20** 11^{48} a	**20** 3^{48} p	**20** 7^{48} p	**20** 11^{48} p	**29** 3^{40} a	**29** 7^{48} a	**29** 11^{48} a	**29** 3^{45} p	**29** 7^{48} p	**29** 11^{45} p
2½	N 48 W 39	N 42 W 23	S 25 E 60	N 43 W 60	N 73 W 33	S 13 E 69	N 39 E 33	N 38 W 33	N 21 W 81	N 52 W 39	S 07 W 51	S 04 E 33
5	N 54 W 51	N 18 W 23	S 26 E 60	N 51 W 56	N 72 W 36	S 15 E 77	N 46 E 22	N 42 W 32	N 18 W 79	N 52 W 39	S 14 W 60	S 04 E 33
10	N 61 W 42	S 18 E 1	S 23 E 62	N 42 W 59	S 64 E 34	S 24 E 78	N 06 W 33	N 18 W 36	N 05 W 84	N 33 W 50	S 02 W 59	S 37 E 39
15	N 51 W 22	S 40 E 39	S 36 E 66	N 34 E 50	S 50 E 39	S 21 E 77	N 52 E 43	N 41 W 36	N 10 W 80	N 33 W 59	S 17 E 61	S 38 E 43
20	S 50 E 11	S 26 E 42	S 34 E 69	N 31 E 41	S 24 E 44	S 31 E 75	S 70 E 44	N 35 W 38	N 06 W 79	N 44 W 57	S 21 E 65	S 09 E 43
25	S 50 E 11	S 21 E 47	S 42 E 68	N 20 E 39	S 44 E 40	S 34 E 73	S 36 E 44	N 23 W 38	N 15 W 71	N 36 W 64	S 26 E 72	S 28 W 38
27½	S 50 E 11	S 37 E 49	S 44 E 61	N 17 E 33	S 44 E 43	S 42 E 67	S 29 E 44	N 26 W 36	N 20 W 70	N 66 W 64	S 28 E 71	S 47 W 31
30	S 50 E 11	S 26 E 48	S 44 E 51	N 26 E 24	S 28 E 47	S 44 E 62	S 10 E 44	N 34 W 30	N 21 W 69	N 65 W 63	S 30 E 67	S 59 W 32
	21 3^{43} a	**21** 7^{38} a	**21** 11^{48} a	**21** 3^{48} p	**21** 7^{39} p	**21** 11^{48} p	**30** 3^{40} a	**30** 7^{44} a	**30** 11^{48} a	**30** 3^{39} p	**30** 7^{48} p	**30** 11^{38} p
2½	N 78 W 39	S 37 W 39	S 18 E 60	N 48 W 51	N 54 W 51	S 33 E 39	S 34 W 39	S 38 E 34	N 28 W 39	N 15 W 58	S 33 E 39	N 23 W 57
5	N 80 W 60	S 37 W 39	S 04 E 69	N 50 W 50	N 45 W 60	S 28 E 39	S 24 E 39	S 38 E 33	N 44 W 51	N 18 W 63	S 31 E 44	N 29 W 60
10	N 78 W 48	S 45 W 38	S 16 E 67	N 54 W 59	N 30 W 59	S 34 E 33	S 13 W 24	S 37 E 47	N 31 W 50	N 32 W 64	S 27 E 45	N 21 W 48
15	N 81 W 35	S 26 W 49	S 24 E 75	N 50 W 57	N 42 W 57	S 55 E 38	S 16 W 24	S 40 E 57	N 29 W 58	N 42 W 66	S 50 E 49	N 04 W 47
20	S 71 E 44	S 09 E 59	S 07 E 72	N 28 W 56	N 30 W 64	S 46 E 42	S 19 W 24	S 44 E 44	N 45 W 66	N 30 W 55	S 36 E 57	N 11 W 46
25	S 54 E 43	S 17 E 66	S 19 E 73	N 19 W 51	N 35 W 66	S 56 E 36	N 02 E 8	S 55 E 47	N 42 W 64	N 06 W 49	S 10 E 65	N 04 W 56
27½	N 84 E 30	S 27 E 66	S 31 E 73	N 30 W 42	N 20 W 62	S 63 E 30	N 02 E 8	S 48 E 46	N 45 W 72	N 14 W 48	S 10 E 64	N 25 W 54
30	S 85 E 9	S 32 E 65	S 35 E 70	N 28 W 42	N 23 W 61	S 60 E 30	N 02 E 8	S 34 E 45	N 35 W 71	N 16 W 48	S 06 W 73	N 31 W 63
	22 3^{48} a	**22** 7^{45} a	**22** 11^{48} a	**22** 3^{45} p	**22** 7^{39} p	**22** 11^{38} p	**31** 3^{45} a	**31** 7^{38} a	**31** 11^{38} a	**31** 3^{48} p	**31** 7^{38} p	**31** 11^{48} p
2½	N 25 W 81	N 44 W 67	S 63 E 33	N 04 W 60	N 23 W 60	S 38 E 39	N 43 W 39	S 13 E 51	N 51 W 39	N 41 W 39	S 48 E 39	N 28 W 39
5	N 13 W 79	N 39 W 84	S 65 E 36	N 13 W 69	N 34 W 77	S 48 E 44	N 36 W 39	S 06 E 50	N 43 W 39	N 44 W 50	S 21 E 51	N 27 W 39
10	N 06 W 84	N 32 W 63	S 58 E 38	N 14 W 48	N 30 W 66	S 51 E 43	N 47 W 24	S 14 E 59	N 36 W 38	N 47 W 59	S 36 E 49	N 13 W 43
15	N 10 W 80	N 42 W 78	S 13 E 38	N 18 W 75	N 25 W 45	S 54 E 47	N 49 W 38	S 15 E 57	N 17 E 43	N 38 W 67	S 22 E 52	N 13 W 42
20	N 20 W 78	N 15 W 76	S 31 E 31	N 22 W 73	N 18 W 51	S 57 E 46	N 51 W 37	S 26 E 45	N 21 W 41	N 50 W 65	S 22 E 51	N 30 W 48
25	N 17 W 71	N 20 W 64	S 68 E 35	N 36 W 71	N 28 W 53	S 47 E 49	N 07 E 23	S 32 E 44	N 12 E 36	N 48 W 72	S 26 E 56	N 12 W 46
27½	N 13 W 66	N 05 W 55	S 38 E 38	N 34 W 69	N 41 W 41	S 25 E 49	N 27 E 24	S 34 E 44	N 32 E 21	N 39 W 61	S 30 E 64	N 21 W 57
30	N 18 W 60	N 03 W 43	S 02 E 38	N 26 W 68	N 37 W 28	S 15 E 46	N 44 W 36	S 47 E 31	S 16 E 15	N 50 W 61	S 48 E 60	N 20 W 56
	23 3^{48} a	**23** 7^{48} a	**23** 11^{45} a	**23** 3^{48} p	**23** 7^{45} p	**23** 11^{38} p	**1** 3^{48} a	**1** 7^{45} a	**1** 11^{39} a	**1** 3^{38} p	**1** 7^{38} p	**1** 11^{39} p
2½	N 03 W 39	N 20 W 51	S 33 E 39	N 25 E 33	N 26 W 51	S 73 E 33	N 21 W 64	S 33 E 23	N 23 W 44	N 32 W 60	N 30 E 23	N 53 W 23
5	N 16 W 44	N 26 W 64	S 35 E 51	N 04 E 33	N 21 W 78	S 43 E 27	N 44 W 66	S 31 E 33	N 26 W 44	N 20 W 60	S 82 E 23	N 05 E 33
10	N 33 W 43	N 38 W 59	S 33 E 49	S 06 W 5	N 17 W 75	S 58 E 32	N 24 W 73	S 84 E 33	N 20 W 38	N 05 W 67	S 61 E 33	N 06 W 44
15	N 24 W 44	N 36 W 57	S 02 E 48	S 06 W 5	N 26 W 55	S 61 E 32	N 19 W 74	S 84 E 43	N 26 W 38	N 29 W 70	S 43 E 44	N 16 W 43
20	N 28 W 36	N 26 W 52	S 09 E 66	N 30 E 32	N 27 W 72	S 66 E 35	N 15 W 72	S 82 E 43	N 26 W 38	N 18 W 72	S 80 E 38	N 24 W 43
25	N 37 W 31	N 58 W 51	S 40 E 74	N 13 E 43	N 24 W 69	S 46 E 31	N 27 W 71	S 79 E 42	N 23 W 30	N 24 W 70	S 85 E 38	N 34 W 42
27½	N 27 W 23	N 48 W 43	S 59 E 74	N 07 E 35	N 40 W 51	S 50 E 31	N 22 W 73	S 64 E 37	N 18 W 37	N 40 W 64	N 86 E 31	N 10 W 46
30	N 14 W 20	N 51 W 35	S 62 E 54	N 24 W 38	N 45 W 50	S 38 E 19	N 34 W 73	S 52 E 46	N 20 W 42	N 35 W 63	E 30	N 04 W 45
	24 3^{38} a	**24** 7^{48} a	**24** 11^{48} a	**24** 3^{45} p	**24** 7^{48} p	**24** 11^{45} p	**2** 3^{48} a	**2** 7^{48} a	**2** 11^{40} a	**2** 3^{49} p	**2** 7^{45} p	**2** 11^{44} p
2½	N 06 W 39	N 36 W 46	S 63 E 23	0	N 05 E 51	N 83 E 23	N 33 W 60	S 87 E 30	0	N 36 W 47	N 54 E 23	S 34 E 33
5	N 11 W 37	N 28 W 51	S 61 E 33	N 20 E 17	N 28 W 51	N 86 E 23	N 34 W 69	N 86 E 36	N 28 W 17	N 28 W 48	N 88 E 30	S 33 E 33
10	N 10 W 39	N 34 W 59	N 86 E 32	S 20 W 1	N 30 W 47	S 86 E 30	N 23 W 76	N 77 E 36	N 25 W 17	N 26 W 49	S 31 E 30	S 18 E 29
15	N 16 W 41	N 36 W 58	N 89 E 29	S 20 W 1	N 40 W 48	S 86 E 29	N 22 W 73	N 73 E 31	N 05 W 23	N 33 W 49	S 23 E 22	S 11 E 15
20	N 18 W 43	N 43 W 52	S 51 E 29	S 20 W 1	N 29 W 39	S 87 E 21	N 24 W 75	S 70 E 35	N 08 W 30	N 39 W 48	S 03 E 22	N 30 W 6
25	N 21 W 38	N 38 W 55	S 41 E 31	S 20 W 1	N 25 W 38	S 60 E 15	N 22 W 65	S 59 E 34	N 09 W 32	N 36 W 42	S 21 E 22	N 30 W 6
27½	N 21 W 37	N 35 W 54	S 41 E 35	S 20 W 1	N 27 W 33	S 31 E 16	N 24 W 64	S 61 E 26	N 20 W 32	N 35 W 38	S 04 E 32	S 78 W 17
30	N 20 W 37	N 35 W 54	S 33 E 35	S 20 W 1	N 45 W 27	S 12 E 16	N 11 W 63	S 49 E 18	N 19 W 29	N 39 W 35	S 04 E 32	S 88 W 21
	25 3^{38} a	**25** 7^{38} a	**25** 11^{48} a	**25** 3^{48} p	**25** 7^{48} p	**25** 11^{48} p	**3** 3^{38} a	**3** 7^{45} a	**3** 11^{48} a	**3** 3^{45} p	**3** 7^{48} p	**3** 11^{45} p
2½	N 53 W 23	N 34 W 51	0	S 44 E 30	N 21 W 33	0	0	S 45 E 32	S 23 E 44	N 41 W 39	0	S 39 E 26
5	N 64 W 14	N 34 W 60	N 57 E 17	S 33 E 33	N 20 W 33	0	N 48 W 33	S 54 E 42	S 30 E 51	N 33 W 44	N 75 E 17	S 46 E 26
10	0	N 33 W 59	E 17	S 32 E 32	N 30 W 34	0	N 23 W 32	S 54 E 45	S 34 E 56	N 14 W 43	N 11 W 20	S 41 E 38
15	0	N 24 W 47	S 82 W 2	S 20 E 35	N 21 W 29	0	N 79 W 36	S 51 E 49	S 32 E 58	N 12 W 38	N 08 W 20	S 41 E 37
20	0	N 35 W 46	S 82 W 2	S 17 E 35	N 44 W 26	0	S 45 E 8	S 53 E 54	S 24 E 57	N 14 W 43	N 05 W 22	S 14 E 37
25	0	N 41 W 40	S 82 W 2	S 36 E 31	N 29 W 20	S 52 E 17	N 13 W 20	S 35 E 44	S 26 E 55	N 04 W 42	S 15 W 3	S 15 E 22
27½	0	N 41 W 37	S 23 W 18	S 38 E 28	N 15 W 14	S 58 E 17	N 20 W 20	S 39 E 41	S 38 E 50	N 10 W 42	S 15 W 3	S 12 E 13
30	0	N 47 W 37	S 37 W 18	S 36 E 27	N 17 W 14	S 54 E 17	N 13 W 20	S 38 E 33	S 41 E 43	N 14 W 37	S 08 W 24	S 08 E 13

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	4 3⁴⁴ a	4 7⁴² a	4 11⁴⁵ a	4 3⁴⁶ p	4 7⁴⁴ p	4 11⁴⁸ p	13 3³⁹ a	13 7⁴⁵ a	13 11³⁸ a	13 3⁴⁵ p	13 7⁴⁸ p	13 11⁴⁶ p
2½	N 27 W 30	N 28 W 23	S 03 E 23	N 42 W 39	N 51 W 36	S 21 E 39	S 18 E 69	S 46 E 47	N 33 W 39	N 36 E 39	N 31 W 60	N 21 W 60
5	N 30 W 33	N 20 E 23	S 30 E 39	N 35 W 39	N 38 W 44	S 18 E 51	S 14 E 68	S 43 E 49	N 30 W 44	N 37 E 39	N 29 W 69	N 26 W 69
10	N 34 W 32	N 32 E 23	S 28 E 39	N 35 W 50	N 41 W 35	S 16 E 50	S 05 E 76	S 46 E 48	N 29 W 54	N 03 E 50	N 20 W 67	N 34 W 76
15	N 37 W 38	N 35 W 22	S 24 E 43	N 44 W 49	S 84 W 26	S 20 E 47	S 19 E 73	S 44 E 47	N 30 W 53	N 05 W 49	N 24 W 68	N 43 W 73
20	N 33 W 40	N 34 W 22	S 16 E 31	N 46 W 40	S 50 E 9	S 35 E 57	S 16 E 62	S 36 E 47	N 14 W 50	N 03 E 58	N 34 W 68	N 44 W 71
25	N 30 W 41	S 01 W 3	S 54 E 27	N 22 W 29	S 50 E 9	S 29 E 56	S 30 E 66	S 39 E 48	N 22 W 41	N 01 W 65	N 33 W 70	N 22 W 60
27½	N 35 W 45	S 01 W 3	S 08 E 31	N 18 W 28	S 50 E 9	S 27 E 51	S 27 E 65	S 42 E 46	N 13 W 33	N 26 W 65	N 28 W 69	N 29 W 49
30	N 33 W 42	S 01 W 3	S 05 E 19	N 38 W 33	S 52 W 22	S 21 E 54	S 40 E 68	S 40 E 45	N 14 W 27	N 30 W 73	N 17 W 72	N 09 W 49
	5 3⁴⁵ a	**5 7⁴⁹ a**	**5 11³⁸ a**	**5 3⁴⁹ p**	**5 7³⁹ p**	**5 11⁴⁴ p**	**14 3³⁹ a**	**14 7⁴⁴ a**	**14 11⁴⁴ a**	**14 3⁴⁸ p**	**14 7⁴⁰ p**	**14 11⁴⁸ p**
2½	N 56 W 26	N 57 W 33	S 03 W 26	N 28 W 26	N 31 W 23	S 20 E 29	N 13 W 57	N 13 W 33	N 33 W 44	N 53 W 30	S 03 E 59	N 73 W 44
5	N 48 W 34	N 54 W 30	S 17 E 57	N 16 W 51	N 48 W 23	S 25 E 60	N 12 W 60	N 05 W 30	N 46 W 58	N 29 W 36	S 02 E 63	N 81 W 51
10	N 48 W 38	S 84 W 16	S 36 E 68	N 08 W 56	N 34 W 28	S 25 E 60	N 15 W 59	S 07 E 3	N 38 W 79	N 21 W 44	S 01 E 63	S 80 W 55
15	N 27 W 37	S 68 E 5	S 37 E 69	N 03 W 48	N 13 W 32	S 29 E 71	N 17 W 53	N 32 W 22	N 42 W 74	N 57 W 43	S 07 E 61	S 86 W 54
20	N 20 W 31	S 68 E 5	S 23 E 73	N 05 W 42	N 83 W 32	S 30 E 62	N 15 W 55	N 47 W 39	N 38 W 66	N 50 W 47	S 15 E 57	S 77 W 39
25	N 37 W 31	S 75 E 19	S 13 E 62	N 09 W 39	N 12 W 31	S 31 E 60	N 12 W 48	N 53 W 35	N 38 W 57	N 65 W 45	S 27 E 53	S 42 W 29
27½	N 23 E 23	S 55 E 27	S 39 E 61	N 09 W 41	N 37 W 20	S 28 E 63	N 04 W 40	N 18 E 32	N 07 W 39	N 63 W 40	S 38 E 62	S 29 W 26
30	N 64 W 36	S 61 E 34	S 26 E 60	N 24 W 33	S 35 E 8	S 28 E 67	N 05 W 29	N 17 E 31	N 08 W 30	S 68 W 38	S 56 E 68	S 52 E 24
	6 3⁴⁸ a	**6 7⁴⁵ a**	**6 11⁴⁴ a**	**6 3⁴⁴ p**	**6 7⁴⁴ p**	**6 11³⁸ p**	**15 3⁴⁵ a**	**15 7⁴⁸ a**	**15 11³⁸ a**	**15 3⁴⁴ p**	**15 7³⁹ p**	**15 11⁴⁴ p**
2½	N 23 W 44	N 41 W 39	S 41 E 41	N 23 W 33	N 36 W 38	S 63 E 36	N 17 E 33	S 43 E 66	0	N 50 W 28	S 43 E 51	S 89 E 33
5	N 08 W 49	N 34 W 47	S 40 E 42	N 28 W 33	N 38 W 37	S 54 E 33	N 18 E 39	S 41 E 67	N 33 W 33	N 58 W 33	S 54 E 68	S 77 E 33
10	N 13 W 48	N 35 W 47	S 48 E 41	N 19 W 32	N 34 W 32	S 63 E 36	N 10 W 38	S 42 E 70	N 13 W 41	N 53 W 29	S 40 E 67	S 54 E 32
15	N 09 W 47	N 46 W 47	S 53 E 43	N 15 W 43	N 36 W 24	S 47 E 38	N 89 W 33	S 52 E 71	N 10 W 43	N 55 W 29	S 44 E 74	N 66 E 29
20	N 11 W 48	N 36 W 38	S 46 E 47	N 12 W 43	N 32 W 15	S 43 E 38	S 75 W 39	S 45 E 71	N 04 E 20	N 83 W 24	S 24 E 72	N 80 W 8
25	N 16 W 49	N 47 W 37	S 51 E 42	N 18 W 43	S 31 E 6	S 50 E 36	S 72 W 39	S 43 E 66	N 09 W 20	W 29	S 17 E 60	N 80 W 8
27½	N 30 W 51	N 15 W 37	S 42 E 42	N 26 W 42	S 31 E 6	S 36 E 30	S 50 W 33	S 51 E 50	N 02 W 40	S 79 W 32	S 26 E 60	N 16 E 22
30	N 32 W 50	N 13 W 42	S 35 E 40	N 41 W 42	S 31 E 6	S 51 E 33	S 15 W 34	S 47 E 49	N 09 W 45	S 66 W 34	S 33 E 59	N 32 E 27
	7 3³⁹ a	**7 7⁴⁸ a**	**7 11⁴⁵ a**	**7 3⁴⁴ p**	**7 7⁴⁵ p**	**7 11⁴⁰ p**	**16 3⁴⁸ a**	**16 7⁴⁵ a**	**16 11⁴⁴ a**	**16 3⁴⁸ p**	**16 7³⁹ p**	**16 11³⁸ p**
2½	N 18 W 23	N 44 W 51	S 40 E 23	N 47 W 17	N 51 W 51	S 44 E 37	N 77 W 36	S 13 E 39	N 30 W 30	N 63 W 23	S 40 E 68	S 27 W 23
5	N 28 W 28	N 51 W 50	S 29 E 33	N 44 W 20	N 51 W 50	S 36 E 38	N 73 W 39	S 46 E 51	N 27 W 33	0	S 36 E 72	S 03 E 33
10	N 27 W 36	N 50 W 42	S 29 E 32	N 46 W 30	N 53 W 49	S 43 E 40	N 34 W 36	S 47 E 68	N 63 E 33	N 03 W 23	S 41 E 71	S 09 W 32
15	N 26 W 32	N 44 W 36	S 20 E 38	N 44 W 32	N 42 W 48	S 51 E 31	N 19 W 35	S 64 E 75	N 23 E 36	N 61 W 23	S 37 E 66	S 10 E 32
20	N 28 W 32	N 52 W 35	S 18 E 38	N 44 W 32	N 43 W 34	S 49 E 31	N 30 W 31	S 59 E 73	N 50 E 37	S 37 E 2	S 44 E 64	S 20 E 29
25	N 30 W 33	N 50 W 34	S 18 E 38	N 45 W 28	N 41 W 33	S 40 E 36	N 27 E 32	S 44 E 70	N 46 E 31	S 10 E 28	S 34 E 57	S 56 E 32
27½	N 21 W 33	N 67 W 23	S 20 E 43	N 37 W 31	N 38 W 17	S 30 E 40	S 10 W 31	S 28 E 74	N 51 E 31	S 37 E 1	S 30 E 45	S 67 E 38
30	N 13 W 36	N 75 W 19	S 07 E 46	N 43 W 36	N 36 W 16	S 24 E 39	S 09 E 28	S 28 E 73	N 36 E 31	S 37 E 1	S 36 E 45	S 53 E 38
	8 3³⁸ a	**8 7⁴⁹ a**	**8 11⁴⁸ a**	**8 3⁴⁵ p**	**8 7⁴⁸ p**	**8 11⁴⁵ p**	**17 3³⁸ a**	**17 7⁴⁸ a**	**17 11⁴⁸ a**	**17 3⁴⁹ p**	**17 7⁴⁸ p**	**17 11⁴⁴ p**
2½	N 45 W 47	N 28 W 51	S 68 E 23	N 46 E 30	N 31 W 44	S 76 E 47	N 41 W 32	S 34 E 49	N 30 E 23	N 36 W 49	S 45 E 30	S 15 E 33
5	N 46 W 42	N 31 W 60	S 65 E 23	N 43 E 30	N 34 W 57	S 42 E 44	N 51 W 39	S 64 E 48	N 32 E 25	N 40 W 54	S 46 E 33	S 10 E 33
10	N 46 W 38	N 30 W 55	S 68 E 23	N 35 E 22	N 43 W 55	S 60 E 43	N 48 W 43	S 59 E 49	N 03 E 33	N 40 W 53	S 54 E 39	S 12 E 27
15	N 46 W 38	N 30 W 47	S 56 E 25	S 40 W 5	N 44 W 50	S 35 E 38	N 46 W 44	S 71 E 51	N 17 W 39	N 36 W 58	S 71 E 31	S 04 E 22
20	N 28 W 43	N 31 W 41	S 03 E 25	N 01 W 16	N 25 W 44	S 32 E 38	N 37 W 30	S 66 E 51	N 17 W 38	N 33 W 56	S 35 E 31	S 06 W 15
25	N 19 W 40	N 32 W 33	S 02 E 29	N 05 W 16	N 29 W 37	S 33 E 42	N 21 W 21	S 59 E 48	N 17 W 40	N 38 W 50	S 05 E 28	N 10 W 6
27½	N 07 W 30	N 37 W 27	S 03 W 29	N 36 W 22	N 65 W 33	S 35 E 42	S 40 E 13	S 51 E 48	N 28 W 40	N 34 W 38	S 04 E 28	N 10 W 6
30	N 17 E 27	N 35 W 23	S 03 W 29	N 34 W 22	N 61 W 32	S 35 E 42	S 40 E 13	S 45 E 48	N 30 W 41	N 41 W 30	S 18 E 31	N 10 W 6
	9 3⁴⁴ a	**9 7³⁹ a**	**9 11⁴⁵ a**	**9 3⁴⁸ p**	**9 7⁴⁴ p**	**9 11⁴⁸ p**	**18 3³⁸ a**	**18 7⁴⁴ a**	**18 11⁴⁸ a**	**18 3³⁹ p**	**18 7³⁸ p**	
2½	N 20 E 17	N 17 W 39	S 63 E 33	N 02 E 30	N 09 E 26	S 75 E 36	N 44 W 39	S 11 E 29	S 31 E 44	N 29 W 23	0	
5	N 17 E 20	N 26 W 60	S 61 E 33	N 16 W 30	N 28 W 37	S 77 E 44	N 50 W 42	S 20 E 39	S 27 E 47	N 35 W 28	S 49 E 23	
10	N 15 W 33	N 39 W 59	S 62 E 22	N 10 W 27	N 28 W 45	S 80 E 47	N 49 W 41	S 35 E 52	S 34 E 50	N 29 W 30	S 59 E 33	
15	N 24 W 32	N 25 W 57	S 37 E 21	S 74 W 23	N 26 W 49	S 67 E 48	N 44 W 38	S 37 E 51	S 31 E 50	N 16 W 32	S 51 E 36	
20	N 30 W 38	N 33 W 56	S 20 E 22	S 88 W 23	N 24 W 50	S 73 E 48	N 01 W 40	S 44 E 58	S 40 E 49	N 20 W 29	S 41 E 43	
25	N 33 W 31	N 20 W 54	S 25 E 29	N 84 W 32	N 25 W 51	S 68 E 46	N 12 W 39	S 37 E 63	S 28 E 49	N 18 W 25	S 38 E 47	
27½	N 36 W 31	N 41 W 37	S 42 E 31	N 41 W 15	N 26 W 45	S 67 E 46	N 30 W 40	S 37 E 60	S 39 E 48	N 03 W 35	S 38 E 47	
30	N 41 W 36	N 31 W 37	S 57 E 31	N 30 W 15	N 14 W 38	S 58 E 44	N 10 W 37	S 35 E 60	S 39 E 48	N 09 E 31	S 34 E 48	
	10 3⁴⁵ a	**10 7⁴⁹ a**	**10 11⁴⁵ a**	**10 3⁴⁵ p**	**10 7³⁸ p**	**10 11⁴⁰ p**	**19 3⁴⁰ a**	**19 7³⁸ a**	**19 11⁴⁴ a**	**19 3³⁸ p**	**19 7⁴⁴ p**	**19 11³⁸ p**
2½	N 67 E 23	N 13 W 44	N 69 W 33	N 03 W 35	N 44 W 39	0	N 19 W 28	0	S 75 E 32	N 15 W 85	N 12 W 39	S 43 E 44
5	N 76 E 33	N 10 W 47	N 50 W 39	N 19 W 38	N 40 W 39	0	N 24 W 23	N 17 E 30	S 46 E 39	N 02 W 74	N 03 W 53	S 56 E 39
10	S 69 E 32	N 05 W 48	N 46 W 43	N 51 W 27	N 43 W 38	N 30 W 33	N 21 W 30	N 24 E 30	S 68 E 43	N 08 W 72	N 11 W 50	S 51 E 43
15	S 48 E 32	N 06 W 46	N 70 W 31	N 84 W 22	N 38 W 49	N 40 W 24	N 21 W 32	N 49 E 22	S 65 E 49	N 20 W 60	N 22 W 43	S 38 E 47
20	S 49 E 38	N 12 W 47	N 21 W 38	N 62 W 26	N 26 W 54	N 76 W 22	N 14 W 32	S 36 W 4	S 60 E 48	N 24 W 63	N 40 W 45	S 49 E 38
25	S 74 E 38	N 09 W 47	N 45 W 38	N 33 W 33	N 16 W 60	S 46 E 5	N 10 W 32	S 60 E 23	S 56 E 37	N 38 W 58	N 56 W 32	S 03 W 18
27½	N 72 E 38	N 04 W 46	N 41 W 30	N 42 W 38	N 20 W 45	S 46 E 5	N 16 W 35	S 44 E 33	S 60 E 28	N 48 W 66	N 53 W 39	S 27 W 20
30	N 80 E 38	N 03 W 42	N 36 W 18	N 39 W 34	N 20 W 45	S 46 E 5	N 21 W 31	S 27 E 28	S 55 E 33	N 22 W 64	N 78 W 32	N 45 W 13
	11 3⁴⁸ a	**11 7⁴⁵ a**	**11 11⁴⁰ a**	**11 3³⁹ p**	**11 7⁴⁴ p**	**11 11³⁸ p**	**20 3⁴⁸ a**	**20 7⁴⁰ a**	**20 11⁴⁸ a**	**20 3⁴² p**	**20 7³⁸ p**	**20 11⁴² p**
2½	S 84 E 44	N 25 W 60	N 33 W 39	S 53 E 39	N 20 W 39	N 15 W 52	N 59 W 30	N 36 W 28	S 43 E 66	0	0	S 18 E 66
5	S 69 E 44	N 21 W 60	N 36 W 46	S 70 E 39	N 25 W 39	N 28 W 39	N 69 W 33	N 37 W 25	S 41 E 68	S 38 W 17	0	S 26 E 68
10	S 74 E 42	N 30 W 65	N 40 W 45	S 51 E 24	N 27 W 52	N 24 W 38	N 59 W 38	N 38 W 16	S 33 E 75	N 38 E 1	S 70 W 23	S 40 E 74
15	S 56 E 48	N 10 W 75	N 30 W 37	S 26 E 37	N 27 W 55	N 18 W 49	N 45 W 43	N 36 W 16	S 35 E 60	N 38 E 1	S 68 W 23	S 40 E 74
20	S 61 E 47	N 10 E 55	N 25 W 50	S 30 E 53	N 34 W 49	N 20 W 48	N 38 W 38	S 37 E 4	S 23 E 53	N 38 E 1	S 88 W 22	S 40 E 75
25	S 52 E 45	N 06 E 53	N 23 W 53	S 17 E 48	N 36 W 56	N 36 W 39	N 35 W 36	S 37 E 4	S 33 E 40	N 38 E 1	N 57 W 22	S 43 E 72
27½	S 34 E 38	N 13 W 40	N 24 W 43	S 17 E 47	N 33 W 51	N 64 W 40	N 21 W 35	S 43 W 17	S 51 E 40	N 38 E 1	N 10 W 17	S 43 E 64
30	S 38 E 33	N 32 W 40	N 24 W 33	S 30 E 46	N 40 W 32	N 10 W 45	N 22 W 35	S 31 W 20	S 33 E 35	N 38 E 1	N 11 W 17	S 44 E 58
	12 3⁴⁰ a	**12 7⁴⁸ a**	**12 11⁴⁵ a**	**12 3⁴⁴ p**	**12 7⁴⁵ p**	**12 11⁴⁴ p**	**21 3³⁸ a**	**21 7⁴⁸ a**	**21 11⁴⁰ a**	**21 3³⁸ p**	**21 7³⁹ p**	**21 11³⁹ p**
2½	S 48 E 39	N 02 E 51	N 41 W 39	S 47 E 39	S 25 E 51	N 31 W 46	N 53 W 23	N 38 W 47	S 37 E 39	0	N 21 W 28	0
5	S 48 E 48	N 07 E 56	N 33 W 51	S 33 E 39	S 06 W 51	N 31 W 46	N 63 W 23	N 27 W 48	S 42 E 48	0	N 31 W 40	S 53 E 33
10	S 48 E 42	N 02 E 59	N 31 W 68	S 38 E 48	S 09 W 50	N 26 W 54	N 62 W 28	N 25 W 47	S 39 E 53	N 17	N 35 W 43	S 37 E 44
15	S 48 E 39	N 04 W 66	N 17 W 75	S 43 E 44	S 10 W 67	N 34 W 59	N 22 W 32	N 37 W 43	S 42 E 63	S 1	N 43 W 41	S 49 E 43
20	S 46 E 40	N 18 W 70	N 22 W 73	S 36 E 48	S 20 W 65	N 29 W 57	N 13 W 26	N 36 W 39	S 36 E 61	S 1	N 52 W 36	S 50 E 46
25	S 47 E 34	N 22 W 72	N 02 W 71	S 43 E 48	S 03 W 72	N 26 W 51	N 04 E 26	N 46 W 39	S 26 E 54	S 1	N 49 W 30	S 46 E 45
27½	S 30 E 33	N 20 W 78	N 05 W 70	S 38 E 43	S 15 W 42	N 10 W 55	N 20 E 26	N 47 W 38	S 28 E 47	N 07 E 23	N 68 W 30	S 44 E 42
30	S 14 E 27	N 20 W 76	N 06 W 68	S 42 E 33	S 02 E 29	N 16 W 61	N 25	N 50 W 37	S 26 E 39	N 06 W 23	N 63 W 25	S 43 E 40

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

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Meter	22 3⁴⁰ a	22 7³⁸ a	22 11⁴⁸ a	22 3⁴⁹ p	22 7⁴⁸ p	22 11³⁹ p	1 3³⁸ a	1 7⁴⁸ a	1 11⁴⁴ a	1 3³⁹ p	1 7³⁹ p	1 11³⁸ p
2½	N 46 W 43	N 33 W 69	N 85 E 28	S 17 E 38	S 78 E 26	S 14 W 46	N 33 W 67	N 39	N 28 W 69	N 20 W 58	N 31 W 57	N 02 E 39
5	N 39 W 39	N 32 W 50	N 71 E 33	S 25 E 38	S 80 E 32	S 16 W 53	N 31 W 84	N 02 E 39	N 26 W 68	N 23 W 58	N 34 W 50	N 02 E 39
10	N 31 W 41	N 30 W 48	N 83 E 32	S 20 E 41	S 37 E 38	S 59	N 36 W 80	N 04 W 50	N 26 W 58	N 31 W 74	N 37 W 59	N 39 W 38
15	N 27 W 46	N 30 W 57	S 50 E 38	S 17 E 36	S 36 E 30	S 20 W 54	N 30 W 78	N 26 W 37	N 25 W 65	N 28 W 71	N 34 W 58	N 53 W 38
20	N 27 W 44	N 34 W 50	S 36 E 43	S 15 E 31	S 26 E 24	S 25 W 41	N 34 W 74	N 20 W 36	N 26 W 72	N 21 W 68	N 34 W 56	N 21 W 53
25	N 28 W 42	N 34 W 48	S 16 E 47	S 19 E 31	S 11 W 24	S 09 W 61	N 34 W 63	N 14 W 35	N 30 W 61	N 42 W 66	N 36 W 51	N 29 W 48
27½	N 28 W 42	N 34 W 43	S 09 E 49	N 15 W 10	S 10 W 16	S 03 E 60	N 37 W 62	N 14 W 40	N 22 W 60	N 35 W 74	N 31 W 43	N 31 W 46
30	N 30 W 42	N 38 W 43	S 14 E 51	N 15 W 10	S 16 W 10	S 13 W 43	N 31 W 61	N 14 W 39	N 25 W 50	N 42 W 73	N 35 W 43	N 35 W 46
	23 3⁸⁸ a	**23 7⁴⁴ a**	**23 11⁴⁴ a**	**23 3⁴⁸ p**	**23 7³⁸ p**	**23 11⁴⁸ p**	**2 3³⁹ a**	**2 7⁴⁹ a**	**2 11⁴⁸ a**	**2 3⁴⁹ p**	**2 7⁴⁸ p**	**2 11⁴⁰ p**
2½	S 13 E 51	N 38 W 29	S 31 E 38	S 20 E 39	N 43 W 44	S 78 E 23	N 18 W 62	S 68 E 51	0	N 25 W 60	N 58 W 26	S 65 E 39
5	S 11 E 50	N 18 W 42	S 35 E 41	S 21 E 51	N 40 W 33	0	N 24 W 68	S 74 E 50	0	N 30 W 60	N 66 W 26	S 49 E 39
10	S 41 E 50	N 04 W 50	S 33 E 43	S 26 E 51	N 31 W 26	0	N 28 W 71	S 64 E 37	N 18 W 26	N 29 W 64	N 67 W 17	S 54 E 33
15	S 40 E 55	N 10 W 44	S 25 E 40	S 25 E 58	S 37 E 6	S 51 E 28	N 31 W 70	S 40 E 37	N 13 W 25	N 30 W 66	S 67 E 4	S 55 E 37
20	S 36 E 66	N 10 W 38	S 24 E 40	S 23 E 53	N 49 E 20	S 44 E 33	N 27 W 63	S 43 E 21	N 24 W 38	N 26 W 69	S 65 E 33	S 58 E 14
25	S 36 E 55	N 13 W 42	S 25 E 42	S 26 E 56	N 53 E 22	S 28 E 38	N 26 W 55	S 20 E 22	N 26 W 24	N 28 W 71	S 66 E 33	N 54 W 10
27½	S 50 E 50	N 10 W 41	S 20 E 42	S 24 E 55	N 71 E 33	S 36 E 32	N 34 W 56	S 20 W 25	S 18 E 7	N 27 W 64	S 44 E 39	N 09 W 31
30	S 35 E 42	N 08 W 41	S 05 E 40	S 33 E 54	N 74 E 33	S 44 E 26	N 30 W 57	S 05 W 23	S 18 E 7	N 22 W 60	S 49 E 39	N 28 W 42
	24 3³⁹ a	**24 7⁴⁹ a**	**24 11⁴⁸ a**	**24 3⁴³ p**	**24 7⁴⁴ p**	**24 11³⁸ p**	**3 3³⁸ a**	**3 7⁴⁵ a**	**3 11⁴⁶ a**	**3 3⁴⁸ p**	**3 7³⁹ p**	**3 11⁴⁸ p**
2½	S 28	N 33 W 60	N 11 W 23	S 26 E 49	N 76 W 23	N 47 E 23	N 18 W 58	N 39 E 25	S 14 W 49	N 08 W 51	N 06 W 23	N 12 E 51
5	S 03 W 20	N 36 W 60	N 10 W 23	S 24 E 52	N 70 W 25	0	N 34 W 66	N 52 E 28	S 41 E 49	N 02 W 60	N 19 E 23	N 15 E 50
10	S 05 E 16	N 34 W 58	N 10 W 28	S 24 E 53	S 74 W 25	N 37 E 14	N 38 W 73	N 54 E 36	S 24 E 37	N 08 W 59	N 03 W 33	N 14 W 59
15	N 2	N 31 W 57	N 40 W 32	S 27 E 47	S 69 W 29	N 09 W 14	N 35 W 71	S 89 E 32	S 47 W 43	N 12 W 66	N 07 E 32	N 12 W 61
20	N 2	N 34 W 60	N 50 W 35	S 17 E 19	S 74 W 29	N 05 E 14	N 55 W 68	S 61 E 29	S 36 E 31	N 29 W 64	N 02 W 21	N 08 W 65
25	N 51 E 18	N 33 W 57	N 59 W 38	S 25 E 18	S 70 W 23	0	N 39 W 65	S 46 E 29	N 05 W 13	N 16 W 62	S 05 W 6	N 31 E 64
27½	N 47 E 21	N 33 W 53	N 56 W 35	S 61 E 7	S 55 W 23	S 52 W 14	N 29 W 65	S 65 E 31	N 29 E 24	N 26 W 67	S 05 W 6	N 13 W 68
30	N 44 E 28	N 35 W 40	N 66 W 31	N 12 W 2	S 56 W 21	S 47 W 23	N 29 W 64	S 34 E 36	N 15 E 36	N 31 W 66	S 05 W 6	N 03 E 70
	25 3⁴⁸ a	**25 7⁴⁹ a**	**25 11⁴⁸ a**	**25 3⁴⁴ p**	**25 7³⁸ p**	**25 11⁴⁰ p**	**4 3⁴⁰ a**	**4 7⁴⁹ a**	**4 11⁴⁸ a**	**4 3⁴⁴ p**	**4 7⁴⁴ p**	**4 11³⁹ p**
2½	S 75 E 34	N 33 W 44	N 18 W 47	S 23 E 25	0	N 21 W 46	N 03 W 60	N 02 E 96	N 03 W 51	N 33 W 60	N 08 W 67	N 15 E 39
5	S 76 E 39	N 20 W 47	N 21 W 50	S 25 E 36	N 39 W 33	N 36 W 47	N 18 W 60	N 04 W117	N 60	N 30 W 60	N 11 W 70	N 04 E 39
10	S 62 E 24	N 34 W 48	N 36 W 49	S 25 E 36	N 48 W 32	N 37 W 45	N 16 W 67	N 01 E 89	N 03 W 59	N 31 W 67	N 08 W 73	N 08 E 24
15	S 50 E 24	N 53 W 49	N 31 W 50	S 20 E 32	N 36 W 26	N 45 W 46	N 04 W 65	N 01 W 72	N 09 W 66	N 36 W 65	N 14 W 74	N 06 E 24
20	S 50 E 24	N 41 W 48	N 31 W 49	S 30 E 14	N 23 W 32	N 41 W 42	N 09 W 72	S 68 E 47	N 03 W 64	N 30 W 72	N 14 W 76	N 12 E 32
25	S 56 E 23	N 37 W 44	N 39 W 49	S 72 W 25	N 25 W 38	N 55 W 35	N 23 W 70	S 62 E 35	N 15 W 62	N 36 W 71	N 07 W 63	N 14 E 23
27½	S 53 E 15	N 40 W 41	N 43 W 48	S 78 W 25	N 15 W 41	N 77 W 30	N 16 W 60	S 62 E 33	N 01 W 70	N 36 W 70	N 04 W 64	N 13 E 23
30	N 65 W 9	N 36 W 38	N 42 W 48	S 88 W 25	N 23 W 36	N 79 W 25	N 18 W 68	S 66 E 35	N 03 W 69	N 34 W 69	N 01 W 59	N 10 E 23
	26 3³⁹ a	**26 7⁴⁸ a**	**26 11⁴⁴ a**	**26 3⁴⁹ p**	**26 7³⁹ p**	**26 11³⁹ p**	**5 3⁴⁸ a**	**5 7⁴⁹ a**	**5 11³⁹ a**	**5 3⁴⁰ p**	**5 7⁴⁰ p**	**5 11³⁹ p**
2½	S 68 E 39	N 12 E 34	N 25 W 71	0	N 25 W 39	N 13 W 51	N 18 W 67	N 10 W 76	N 12 E 39	N 15 E 108	N 13 W 67	N 19 E 64
5	S 65 E 39	N 13 E 39	N 20 W 74	0	N 20 W 39	N 30 W 50	N 16 W 75	N 11 W 74	N 03 E 39	N 113	N 20 W 75	N 09 W 68
10	S 72 E 38	N 12 E 38	N 30 W 75	0	N 25 W 48	N 30 W 59	N 35 W 81	N 11 W 80	N 24 W 59	N 14 W113	N 10 W 73	N 14 W 76
15	S 68 E 23	N 24 W 50	N 30 W 73	S 51 E 33	N 19 W 46	N 39 W 67	N 23 W 78	N 15 W 78	N 16 W 48	N 17 W106	N 21 W 78	N 13 W 66
20	S 13 E 24	N 29 W 48	N 25 W 68	S 46 E 39	N 20 W 50	N 31 W 70	N 11 W 75	N 09 W 71	N 24 W 66	N 29 W 71	N 10 W 76	N 20 W 71
25	S 03 W 30	N 29 W 51	N 31 W 58	S 18 E 41	N 13 W 42	N 42 W 67	N 17 W 76	N 63	N 28 W 64	N 34 W 95	N 06 W 73	N 20 W 73
27½	S 40 W 26	N 24 W 65	N 27 W 49	S 07 W 41	N 08 W 33	N 46 W 59	N 01 W 72	N 11 W 53	N 24 W 63	N 31 W 85	N 11 W 72	N 22 W 72
30	S 59 W 15	N 21 W 74	N 31 W 49	S 12 W 41	N 17 W 33	N 48 W 61	N 04 W 71	N 20 W 52	N 24 W 71	N 23 W 84	N 06 W 70	N 22 W 67
	27 3³⁹ a	**27 7³⁸ a**	**27 11⁴⁸ a**	**27 3³⁹ p**	**27 7⁴⁸ p**	**27 11³⁹ p**	**6 3³⁸ a**	**6 7⁴⁸ a**	**6 11⁴⁴ a**	**6 3⁴⁹ p**	**6 7⁴⁰ p**	**6 11³⁸ p**
2½	N 28 E 51	N 23 W 60	N 28 W 67	N 30 W 44	0	N 39 W 57	N 18 W 76	N 07 E 124	N 03 W 51	N 23 W 34	N 18 W 51	N 80 E 26
5	N 14 E 58	N 24 W 50	N 34 W 66	N 34 W 46	0	N 35 W 56	N 21 W 74	N 05 W110	N 11 W 60	N 28 W 40	N 17 W 56	N 32 E 32
10	N 06 E 64	N 26 W 49	N 29 W 73	N 36 W 52	N 18 W 26	N 33 W 66	N 30 W 81	N 28 W 88	N 08 W 59	N 28 W 47	N 11 W 59	N 32 E 43
15	N 17 E 56	N 22 W 48	N 45 W 71	N 31 W 59	N 18 W 39	N 36 W 71	N 24 W 78	N 02 E 84	N 08 W 66	N 20 W 46	N 13 W 66	N 28 E 37
20	N 21 E 59	N 14 W 46	N 42 W 68	N 35 W 42	N 24 W 38	N 36 W 67	N 17 W 75	N 02 E 70	N 10 W 64	N 35 W 44	N 16 W 74	N 43 E 36
25	N 18 E 62	N 15 W 56	N 43 W 69	N 36 W 45	N 29 W 38	N 33 W 52	N 18 W 72	N 34 W 81	N 10 W 59	N 17 W 54	N 19 W 71	N 56 E 36
27½	N 08 E 59	N 24 W 55	N 32 W 64	N 32 W 38	N 17 W 32	N 24 W 57	N 23 W 71	N 34 W 74	N 12 W 52	N 24 W 54	N 16 W 66	N 46 E 36
30	N 13 W 56	N 18 W 43	N 35 W 64	N 29 W 33	N 15 W 32	N 23 W 44	N 21 W 70	N 14 E 68	N 14 W 52	N 25 W 52	N 20 W 60	N 74 E 35
	28 3³⁹ a	**28 7⁴⁴ a**	**28 11³⁸ a**	**28 3⁴⁸ p**	**28 7³⁸ p**	**28 11⁴⁸ p**	**7 3⁴⁰ a**	**7 7⁴⁴ a**	**7 11⁴⁸ a**	**7 3⁴⁸ p**	**7 7⁴⁸ p**	**7 11⁴⁸ p**
2½	S 89 W 30	N 61 E 36	N 26 W 51	N 08 W 39	S 08 E 33	N 43 W 51	N 16 W 60	N 36 W 60	S 48 E 39	N 23 W 39	N 03 W 39	N 82 E 44
5	N 71 W 43	N 36 E 33	N 34 W 60	N 15 W 39	S 16 E 33	N 45 W 60	N 16 W 74	N 38 W 60	S 62 E 39	N 08 W 44	N 10 W 44	N 84 E 47
10	N 32 W 44	N 09 E 38	N 34 W 75	N 34 W 50	S 27 W 39	N 35 W 68	N 06 W 67	N 44 W 67	S 28 E 38	N 19 W 38	N 30 W 43	S 82 E 46
15	N 36 W 43	N 10 W 38	N 34 W 74	N 32 W 59	S 73 W 32	N 44 W 65	N 10 W 74	N 55 W 74	S 43 E 49	N 26 W 49	N 34 W 49	S 65 E 46
20	N 21 W 46	N 24 W 38	N 36 W 71	N 34 W 66	S 76 W 22	N 32 W 67	N 15 W 75	N 55 W 63	S 38 E 58	N 17 W 36	N 32 W 47	S 36 E 43
25	N 34 W 46	N 29 W 39	N 27 W 69	N 18 W 64	N 78 W 22	N 35 W 61	N 12 W 73	N 60 W 52	S 43 E 56	N 15 W 29	N 49 W 34	S 39 E 42
27½	N 26 W 45	N 32 W 39	N 34 W 68	N 37 W 54	N 19 E 8	N 48 W 60	N 07 W 71	N 55 W 51	S 43 E 59	N 10 W 29	N 46 W 33	S 30 E 40
30	N 14 W 45	N 29 W 38	N 29 W 68	N 39 W 53	N 19 E 8	N 44 W 69	N 14 W 70	N 64 W 51	S 50 E 59	N 05 E 19	N 61 W 28	S 35 E 40
	29 3⁴⁴ a	**29 7⁴⁹ a**	**29 11³⁹ a**	**29 3⁴⁸ p**	**29 7⁴⁴ p**	**29 11³⁸ p**	**8 3⁴⁵ a**	**8 7⁴⁵ a**	**8 11⁴⁵ a**	**8 3⁴⁸ p**	**8 7³⁸ p**	**8 11⁴⁸ p**
2½	N 45 W 39	S 85 E 28	N 57	N 12 E 58	N 02 E 29	N 21 W 51	N 67 E 39	N 02 E 58	N 29 E 39	N 08 W 39	N 38 W 51	N 06 W 26
5	N 45 W 39	S 34 E 36	N 06 W 63	N 12 E 66	N 10 W 39	N 23 W 69	N 28 E 39	N 11 W 75	N 12 E 60	N 06 W 44	N 40 W 50	N 08 W 34
10	N 44 W 47	S 56 W 33	N 26 W 76	N 35 W 65	N 10 W 43	N 31 W 76	N 27 E 38	N 17 W 83	N 06 W 59	N 29 W 43	N 33 W 55	N 14 W 38
15	N 47 W 59	N 36 W 34	N 24 W 77	N 37 W 63	N 25 W 49	N 27 W 73	N 26 E 49	N 26 W 82	N 16 W 35	N 26 W 49	N 38 W 67	N 03 E 23
20	N 49 W 57	N 17 W 39	N 24 W 71	N 34 W 70	N 16 W 60	N 30 W 71	N 05 E 48	N 28 W 78	N 12 E 34	N 13 W 58	N 44 W 65	S 05 E 9
25	N 47 W 47	N 22 W 39	N 24 W 72	N 36 W 67	N 16 W 65	N 32 W 60	N 04 E 46	N 28 W 75	N 89 E 38	N 19 W 45	N 42 W 72	S 05 E 9
27½	N 79 W 33	N 24 E 32	N 21 W 71	N 41 W 66	N 12 W 59	N 37 W 59	N 27 W 35	N 20 W 70	S 62 E 41	N 18 W 33	N 42 W 71	S 12 W 29
30	N 61 W 26	N 21 W 31	N 24 W 70	N 41 W 65	N 12 W 60	N 41 W 59	N 42 W 36	N 14 W 73	S 38 E 29	N 01 W 28	N 38 W 70	S 09 W 28
	30 3⁴⁸ a	**30 7⁴⁴ a**	**30 11⁴⁸ a**	**30 3⁴⁴ p**	**30 7⁴⁰ p**	**30 11⁴⁰ p**	**9 3⁴⁸ a**	**9 7⁴⁵ a**	**9 11⁴⁸ a**	**9 3⁴⁵ p**	**9 7⁴⁴ p**	**9 11³⁸ p**
2½	N 38 W 33	N 70 E 23	N 18 W 51	N 29 W 67	N 27 E 51	N 09 E 51	N 12 E 36	N 15 W 51	N 43 W 32	S 53 E 26	N 80 W 14	S 56 E 19
5	N 40 W 39	N 79 E 39	N 16 W 60	N 28 W 66	N 25 E 60	N 18 W 69	N 14 E 35	N 49 W 69	N 28 W 34	S 30 E 39	N 78 W 19	S 54 E 19
10	N 45 W 47	E 48	N 25 W 68	N 22 W 73	N 27 E 58	N 16 W 72	N 28 E 35	N 36 W 76	S 32 E 4	S 14 W 38	N 70 W 23	S 48 E 20
15	N 44 W 49	S 73 E 46	N 29 W 65	N 24 W 70	N 32 E 57	N 18 W 65	N 40 E 21	N 40 W 74	S 32 E 4	S 17 E 37	N 52 W 26	S 46 E 20
20	N 50 W 49	S 68 E 43	N 18 W 73	N 26 W 73	N 30 E 55	N 21 W 70	N 02 E 34	N 28 W 71	S 32 E 4	S 17 E 36	N 55 W 27	S 43 E 20
25	N 38 W 49	S 47 E 35	N 23 W 70	N 23 W 74	N 04 W 44	N 26 W 70	N 09 W 28	N 60 W 29	S 01 E 21	S 30 E 48	N 52 W 24	S 38 E 16
27½	N 33 W 47	S 38 E 30	N 24 W 69	N 26 W 76	N 20 W 52	N 24 W 72	S 14 W 9	N 21 W 59	S 15 E 27	S 48 E 58	N 86 W 6	S 33 E 16
30	N 46 W 46	S 01 W 13	N 30 W 68	N 25 W 69	N 14 W 43	N 24 W 71	S 14 W 9	N 17 W 59	S 18 E 40	S 44 E 35	S 60 E 7	S 34 E 16

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	10 3^{48} a	10 7^{48} a	10 11^{45} a	10 3^{45} p	10 7^{45} p	10 11^{44} p	19 3^{48} a	19 7^{45} a	19 11^{44} a	19 3^{44} p	19 7^{40} p	19 11^{38} p
2½	S 33 E 34	N 32 E 39	S 33 E 19	S 40 E 39	N 78 W 39	N 88 W 20	N 06 W 92	N 33 W 60	N 33 W 36	N 31 W 70	N 02 E 64	N 05 W 39
5	S 23 E 33	N 43 E 39	S 23 E 19	S 60 E 46	N 44 W 39	N 81 W 34	N 19 W 90	N 30 W 69	N 27 W 41	N 38 W 75	N 26 W121	N 18 W 39
10	S 14 E 34	N 51 E 40	S 36 E 18	S 56 E 52	N 58 W 59	N 88 W 34	N 38 W 86	N 36 W 76	N 33 W 47	N 49 W 76	N 19 W105	N 32 W 49
15	S 26 E 36	N 56 E 39	S 39 E 28	S 57 E 62	N 30 W 36	N 85 W 33	N 35 W 82	N 45 W 73	N 16 E 35	N 16 W 74	N 17 W102	N 48 W 49
20	S 31 E 35	N 51 E 30	S 26 E 33	S 49 E 60	N 34 W 21	N 36 W 17	N 50 W 79	N 40 W 71	N 46 E 30	N 17 W 71	N 20 W 81	N 36 W 52
25	S 32 E 35	N 64 E 20	S 21 E 36	S 50 E 55	N 31 E 38	S 81 E 9	N 41 W 76	N 30 W 69	N 49 E 24	N 55 W 69	N 30 W 80	N 51 W 46
27½	S 20 E 33	N 86 E 17	S 18 E 36	S 44 E 58	N 47 E 39	S 69 E 20	N 21 W 72	N 31 W 68	N 58 E 27	N 53 W 68	N 22 W 39	N 45 W 45
30	S 20 E 33	S 71 E 14	S 20 E 35	S 46 E 57	N 04 E 36	S 27 E 20	N 30 W 70	N 39 W 58	N 66 E 30	N 46 W 66	N 08 W 57	N 36 W 56
	11 3^{38} a	**11** 7^{48} a	**11** 11^{48} a	**11** 3^{48} p	**11** 7^{48} p	**11** 11^{45} p	**20** 3^{48} a	**20** 7^{44} a	**20** 11^{45} a	**20** 3^{48} p	**20** 7^{45} p	**20** 11^{48} p
2½	S 08 E 51	N 73 W 60	N 75 W 78	S 03 E 39	N 49 W 75	N 54 W 39	N 21 W 96	N 23 W 58	S 63 E 34	N 11 W 44	N 18 W 39	S 73 E 24
5	S 06 E 60	N 73 W 69	N 15 W 63	S 02 E 51	N 53 W 77	N 50 W 60	N 18 W 87	N 39 W 78	S 63 E 39	N 17 W 55	N 32 W 60	S 69 E 29
10	S 08 E 55	N 65 W 48	N 57 W 67	S 09 E 59	N 61 W 75	N 44 W 68	N 18 W 71	N 42 W 76	S 76 E 38	N 17 W 49	N 34 W 76	S 31 E 31
15	S 35 E 48	N 63 W 57	N 64 W 61	S 07 E 58	N 50 W 73	N 40 W 66	N 35 W 80	N 45 W 78	S 18 E 38	N 26 W 48	N 44 W 65	S 80 E 27
20	S 39 E 57	N 65 W 55	N 46 W 54	S 35 E 57	N 54 W 67	N 55 W 73	N 38 W 80	N 46 W 79	S 16 E 37	N 17 W 51	N 34 W 72	S 74 E 32
25	S 38 E 55	N 48 W 58	N 24 W 43	S 26 E 64	N 60 W 65	N 49 W 70	N 17 W 65	N 52 W 76	S 68 E 21	N 14 W 56	N 25 W 70	S 82 E 28
27½	S 34 E 54	N 63 W 62	N 31 W 42	S 27 E 54	N 50 W 59	N 38 W 60	N 10 W 61	N 34 W 71	S 69 E 21	N 22 W 55	N 25 W 60	S 74 E 32
30	S 36 E 58	N 64 W 52	N 30 W 42	S 23 E 71	N 23 W 59	N 45 W 60	N 06 W 58	N 51 W 70	S 67 E 31	N 18 W 40	N 24 W 59	S 76 E 33
	12 3^{35} a	**12** 7^{39} a	**12** 11^{48} a	**12** 3^{48} p	**12** 7^{48} p	**12** 11^{48} p	**21** 3^{38} a	**21** 7^{48} a	**21** 11^{45} a	**21** 3^{45} p	**21** 7^{48} p	**21** 11^{46} p
2½	S 27 W 49	N 61 W 39	S 87 W 39	S 30 E 60	S 18 E 51	N 75 W 34	N 13 W 34	N 31 W 58	S 42 E 39	0	N 57 W 39	S 35 E 39
5	S 04 W 69	N 63 W 25	N 77 W 39	S 28 E 82	S 04 E 60	N 78 W 34	N 35 W 39	N 30 W 58	S 37 E 51	S 12 W 19	N 44 W 44	S 40 E 51
10	S 13 E 72	S 63 E 4	S 50 W 40	S 25 E 80	S 04 E 59	N 52 W 31	N 35 W 50	N 28 W 65	S 34 E 49	S 10 W 18	N 04 W 31	S 45 E 49
15	S 14 E 70	S 66 W 25	S 40 W 42	S 23 E 78	S 20 E 57	N 34 W 30	N 27 W 62	N 30 W 63	S 34 E 48	S 17 W 22	N 41 W 27	S 55 E 48
20	S 21 E 76	S 10 E 27	S 40 W 37	S 38 E 76	S 30 E 65	N 33 W 38	N 32 W 60	N 29 W 61	S 29 E 46	S 02 E 22	N 45 W 19	S 55 E 57
25	S 26 E 73	S 21 E 26	S 50 W 35	S 43 E 74	S 31 E 72	N 63 E 31	N 34 W 55	N 40 W 68	S 10 E 33	S 40 E 17	S 35 E 9	S 38 E 64
27½	S 19 E 74	S 28 E 26	S 69 W 35	S 28 E 73	S 36 E 71	N 71 E 27	N 21 W 45	N 38 W 66	S 14 E 28	S 50 E 14	S 35 E 9	S 46 E 63
30	S 29 E 71	S 41 E 26	S 64 W 29	S 41 E 72	S 13 E 70	N 66 E 20	N 10 W 43	N 44 W 65	S 14 E 33	S 66 E 8	S 35 E 9	S 43 E 54
	13 3^{35} a	**13** 7^{45} a	**13** 11^{38} a	**13** 3^{48} p	**13** 7^{38} p	**13** 11^{48} p	**22** 3^{38} a	**22** 7^{44} a	**22** 11^{48} a	**22** 3^{38} p	**22** 7^{48} p	**22** 11^{48} p
2½	S 08 E 26	N 88 W 69	N 43 W 85	S 33 E 39	N 78 W 39	N 13 W 69	N 17 W 19	N 14 W 67	N 32 E 16	S 02 W 24	N 13 W 39	N 12 E 26
5	S 16 E 39	N 65 W 56	N 39 W 86	S 31 E 39	N 74 W 51	N 15 W 68	N 19 W 16	N 11 W 66	N 44 E 19	S 10 W 18	N 26 W 39	N 07 E 26
10	S 39 E 50	N 46 W 55	N 40 W 79	S 45 E 38	S 85 W 37	N 21 W 75	N 09 E 14	N 23 W 78	N 54 E 15	S 43 E 18	N 29 W 50	N 26 E 22
15	S 53 E 49	N 28 W 58	N 42 W 76	S 55 E 37	N 83 W 36	N 19 W 73	N 20 E 13	N 21 W 70	N 45 E 14	N 10 W 4	N 34 W 53	N 89 E 28
20	S 55 E 67	N 36 W 56	N 38 W 74	S 34 E 48	N 70 W 21	N 15 W 70	N 16 E 19	N 20 W 64	N 46 E 11	N 10 W 4	N 30 W 66	N 71 E 21
25	S 58 E 74	N 41 W 45	N 38 W 71	S 32 E 47	S 85 E 13	N 19 W 68	N 07 E 22	N 30 W 62	N 41 E 10	N 10 W 4	N 28 W 49	N 41 E 20
27½	S 67 E 73	N 60 W 54	N 38 W 60	S 27 E 46	S 85 E 13	N 29 W 64	N 07 E 17	N 10 W 59	N 62 E 9	N 10 W 4	N 40 W 49	S 46 W 6
30	S 54 E 54	N 72 W 57	N 40 W 59	S 34 E 46	S 85 E 13	N 15 W 58	N 07 E 21	N 14 W 58	N 35 E 8	N 10 W 4	N 40 W 48	S 46 W 6
	14 3^{48} a	**14** 7^{45} a	**14** 11^{48} a	**14** 3^{45} p	**14** 7^{40} p	**14** 11^{38} p	**23** 3^{45} a	**23** 7^{41} a	**23** 11^{38} a	**23** 3^{48} p	**23** 7^{38} p	**23** 11^{48} p
2½	N 05 W 39	N 05 W 34	N 08 W 58	N 33 W 51	N 03 E 30	N 33 W 60	N 33 W 19	N 20 W 73	0	S 05 E 24	N 52 W 11	S 25 E 39
5	N 08 W 44	N 02 W 39	N 10 W 58	N 34 W 50	N 21 E 23	N 23 W 69	N 20 W 19	N 12 W 74	0	S 04 E 23	N 21 W 11	S 27 E 39
10	N 10 W 49	N 10 W 38	N 10 W 65	N 45 W 49	N 16 E 21	N 30 W 70	N 01 W 23	N 14 W 72	N 15 E 19	S 14 E 33	N 89 W 11	S 16 E 33
15	N 11 W 54	N 20 W 49	N 08 W 72	N 48 W 36	N 18 E 20	N 23 W 65	N 05 E 22	N 21 W 62	N 64 W 24	S 14 E 37	S 41 E 1	S 16 E 33
20	N 15 W 60	N 16 W 36	N 20 W 69	N 19 W 30	N 16 E 24	N 30 W 63	N 29 E 22	N 12 W 67	N 58 E 19	S 31 E 36	S 41 E 1	S 18 E 32
25	N 14 W 59	N 03 W 35	N 17 W 66	N 07 E 31	N 12 E 17	N 20 W 61	N 67 E 17	N 12 W 65	N 33 E 18	S 14 E 34	N 56 W 7	S 27 E 29
27½	N 24 W 54	N 08 E 30	N 20 W 74	N 17 E 36	N 44 E 9	N 35 W 60	N 60 E 16	N 26 W 58	N 21 W 20	S 14 E 33	N 37 W 16	S 37 E 22
30	N 21 W 50	N 11 E 29	N 18 W 73	N 17 E 35	N 62 E 15	N 33 W 50	N 34 E 16	N 34 W 64	N 18 W 17	S 07 W 32	N 27 W 15	S 40 E 23
	15 3^{48} a	**15** 7^{48} a	**15** 11^{45} a	**15** 3^{48} p	**15** 7^{45} p	**15** 11^{38} p	**24** 3^{48} a	**24** 7^{45} a	**24** 11^{48} a	**24** 3^{42} p	**24** 7^{49} p	**24** 11^{38} p
2½	N 49 W 44	S 35 E 26	N 31 W 51	N 20 W 58	S 33 E 26	N 09 W 37	S 39 E 57	N 48 W 26	0	S 46 E 51	S 52 W 14	S 89 W 19
5	N 47 W 44	S 33 E 32	N 34 W 50	N 21 W 66	S 33 E 26	N 13 W 31	S 37 E 63	N 29 W 34	0	S 34 E 54	S 59 W 20	N 88 W 19
10	N 43 W 59	S 31 E 31	N 22 W 50	N 21 W 68	S 32 E 18	N 13 W 37	S 46 E 58	N 33 W 33	0	S 39 E 53	S 59 W 23	S 89 E 2
15	N 41 W 67	S 38 E 25	N 23 W 36	N 19 W 64	S 46 E 17	N 15 W 33	S 40 E 51	N 21 W 38	N 38 W 13	S 44 E 47	S 55 W 13	S 37 E 16
20	N 31 W 45	S 34 E 24	N 14 W 48	N 40 W 46	S 44 E 24	N 18 W 33	S 43 E 49	N 15 W 37	N 48 W 14	S 40 E 46	N 34 E 13	S 31 E 24
25	N 38 W 44	S 32 E 30	N 37 W 57	N 21 W 49	S 68 E 33	N 19 W 32	S 65 E 44	N 40 W 23	N 74 W 14	S 41 E 52	N 59 E 4	S 31 E 32
27½	N 41 W 44	S 49 E 24	N 29 W 33	N 21 W 50	S 67 E 33	N 17 W 32	S 56 E 43	N 30 W 21	S 81 W 10	S 47 E 51	N 59 E 4	S 35 E 31
30	N 41 W 43	S 57 E 20	N 21 W 33	N 21 W 49	S 68 E 24	N 22 W 33	S 64 E 35	N 30 W 21	S 49 W 11	S 47 E 44	N 03 E 12	S 40 E 30
	16 3^{38} a	**16** 7^{48} a	**16** 11^{48} a	**16** 3^{45} p	**16** 7^{48} p	**16** 11^{45} p	**25** 3^{48} a	**25** 7^{48} a	**25** 11^{46} a	**25** 3^{48} p	**25** 7^{45} p	**25** 11^{40} p
2½	N 36 W 55	S 78 E 26	N 23 W 44	N 29 W 69	0	N 53 W 19	S 43 E 51	N 51 W 30	N 17 W 39	S 23 E 29	N 55 E 11	N 31 W 32
5	N 35 W 50	S 77 E 26	N 30 W 39	N 42 W 60	0	N 49 W 30	S 45 E 60	N 40 W 32	N 30 W 34	S 27 E 32	0	N 31 W 33
10	N 36 W 49	S 56 E 31	N 17 W 33	N 42 W 58	S 16 E 19	N 28 W 33	S 43 E 59	N 43 W 28	N 26 W 33	S 36 E 38	N 58 W 19	N 34 W 33
15	N 39 W 40	S 56 E 31	N 20 W 35	N 42 W 57	S 29 E 19	N 27 W 33	S 53 E 51	N 22 W 25	N 27 W 24	S 36 E 50	N 25 W 10	N 36 W 30
20	N 40 W 34	S 42 E 38	N 23 W 34	N 34 W 44	S 26 E 18	N 28 W 32	S 53 E 50	N 15 W 24	N 27 W 24	S 38 E 43	N 04 W 10	N 36 W 33
25	N 47 W 34	S 44 E 37	N 25 W 34	N 34 W 30	S 29 E 18	N 29 W 25	S 40 E 44	N 05 W 26	N 42 W 32	S 40 E 42	N 48 W 15	N 37 W 30
27½	N 45 W 28	S 44 E 36	N 22 W 33	N 51 W 30	S 36 E 18	N 24 W 19	S 42 E 43	N 02 W 28	N 50 W 32	S 45 E 39	N 61 W 15	N 36 W 25
30	N 64 W 18	S 41 E 36	N 20 W 30	N 51 W 30	S 44 E 22	N 17 W 19	S 41 E 43	N 06 W 31	N 51 W 21	S 47 E 33	N 63 W 17	N 38 W 18
	17 3^{39} a	**17** 7^{38} a	**17** 11^{48} a	**17** 3^{48} p	**17** 7^{48} p	**17** 11^{48} p	**26** 3^{38} a	**26** 7^{48} a	**26** 11^{48} a	**26** 3^{45} p	**26** 7^{48} p	**26** 11^{45} p
2½	N 19 W 70	N 57 E 36	S 03 E 16	N 38 W 60	N 42 E 19	S 68 E 24	N 85 E 26	N 16 W 39	N 29 W 57	S 33 E 26	S 89 E 44	N 31 W 39
5	N 11 W 79	N 47 E 36	S 14 E 16	N 37 W 65	N 44 E 19	S 60 E 23	S 61 E 39	N 08 W 39	N 31 W 50	S 32 E 39	S 66 E 51	N 44 W 51
10	N 14 W 74	N 73 E 40	S 20 W 18	N 35 W 72	N 72 E 20	S 43 E 22	S 65 E 33	N 45 W 50	N 39 W 49	S 44 E 50	S 53 E 49	N 41 W 49
15	N 16 W 67	N 68 E 46	S 26 E 23	N 42 W 74	S 75 E 23	S 03 E 25	S 26 E 38	N 34 W 48	N 39 W 47	S 58 E 49	S 18 E 53	N 34 W 58
20	N 20 W 60	N 62 E 45	S 26 E 17	N 52 W 68	S 80 E 22	S 28 E 25	S 47 E 37	N 01 W 48	N 40 W 46	S 34 E 47	S 10 E 47	N 37 W 56
25	N 17 W 54	N 32 E 33	S 33 E 16	N 44 W 66	S 25 E 23	S 31 E 24	S 54 E 41	N 01 W 41	N 40 W 45	S 03 W 58	S 27 E 38	N 26 W 44
27½	N 17 W 51	N 21 E 17	S 33 E 16	N 40 W 60	S 17 E 25	S 51 E 21	S 46 E 30	N 24 W 40	N 41 W 52	S 01 E 66	S 58 E 38	N 20 W 44
30	N 21 W 43	N 19 E 17	S 33 E 13	N 25 W 49	S 17 E 25	S 67 E 20	S 39 E 35	N 45 W 33	N 49 W 51	S 12 W 65	S 34 E 32	N 21 W 31
	18 3^{45} a	**18** 7^{45} a	**18** 11^{48} a	**18** 3^{45} p	**18** 7^{40} p	**18** 11^{48} p	**27** 3^{39} a	**27** 7^{44} a	**27** 11^{48} a	**27** 3^{48} p	**27** 7^{48} p	**27** 11^{48} p
2½	N 25 W 60	N 08 W 24	S 07 W 39	N 13 W 60	N 12 E 51	N 13 W 51	S 47 E 32	N 49 E 39	N 31 W 76	N 64	N 08 W 58	N 15 W 58
5	N 23 W 60	N 03 W 26	S 10 W 39	N 29 W 77	N 28 W 60	N 08 W 50	S 54 E 39	N 26 E 39	N 18 W 74	N 07 E 66	N 12 W 58	N 21 W 66
10	N 16 W 68	N 14 W 28	N 58 E 36	N 32 W 75	N 29 W 76	N 08 W 49	S 85 E 50	N 09 E 24	N 30 W 72	N 07 E 60	N 24 W 56	N 25 W 64
15	N 19 W 74	N 16 W 30	N 74 E 39	N 28 W 73	N 27 W 74	N 08 W 52	E 44	S 30 W 6	N 34 W 73	N 15 E 53	N 07 W 58	N 31 W 62
20	N 16 W 72	N 08 W 24	N 81 E 33	N 34 W 70	N 34 W 68	N 03 W 46	N 72 E 48	N 19 E 24	N 05 W 76	N 17 E 51	N 19 W 57	N 14 W 64
25	N 44 W 70	N 08 W 22	N 80 E 33	N 33 W 68	N 14 W 67	N 16 W 50	N 80 E 42	N 20 W 30	N 23 W 73	N 20 E 49	N 22 W 60	N 37 W 67
27½	N 45 W 60	N 08 W 18	N 69 E 32	N 18 W 68	N 21 W 69	N 16 W 55	N 64 E 46	N 47 W 38	N 23 W 72	N 26 E 42	N 05 W 59	N 36 W 66
30	N 51 W 60	N 15 W 20	N 60 E 24	N 14 W 67	N 13 W 68	N 20 W 54	N 76 E 48	N 26 W 37	N 16 W 74	N 12 E 41	N 05 W 58	N 17 W 61

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Meter	**28** 3^{45} a	**28** 7^{45} a	**28** 12^{45} a	**28** 3^{45} p	**28** 7^{38} p	**28** 11^{45} p	**29** 3^{45} a	**29** 7^{44} a	**29** 11^{45} a	**29** 3^{42} p
$2^1/_2$	N 28 W 28	S 52 W 14	N 28 W 62	N 41 W 38	N 03 W 24	N 33 W 58	N 51 W 44	N 07 E 51	N 53 W 96	0
5	N 56 W 30	S 49 W 14	N 20 W 75	N 33 W 62	N 53 W 29	N 36 W 66	N 48 W 51	N 06 E 50	N 28 W 115	N 44 W 96
10	N 58 W 28	N 66 E 20	N 46 W 75	N 11 W 65	N 33 W 36	N 34 W 60	N 52 W 49	N 05 W 37	N 48 W 102	N 34 W 86
15	N 72 W 40	N 48 E 20	N 30 W 62	N 17 W 68	N 04 W 35	N 16 W 68	N 54 W 48	N 19 E 59	N 21 W 100	N 39 W 84
20	N 44 W 34	N 47 E 23	N 10 W 68	N 24 W 64	N 43 W 32	N 11 W 64	N 54 W 39	N 37 W 36	N 35 W 109	N 38 W 88
25	N 60 W 46	N 51 E 20	N 14 W 65	N 08 W 48	N 25 W 34	N 10 W 62	N 76 W 28	N 57 W 20	N 34 W 114	N 38 W 72
$17^1/_2$	N 66 E 36	N 84 E 20	N 20 W 65	N 38 W 36	N 42 W 34	N 26 W 57	N 54 W 17	N 18 W 28	N 34 W 103	N 10 W 101
0	N 26 E 27	N 68 E 22	N 10 W 64	N 21 W 57	N 34 W 33	N 31 W 57	S 59 E 17	N 17 W 33	N 08 W 95	N 46 W 37

CURRENT MEASUREMENTS FROM LIGHTSHIP

LÆSØ RENDE

57° 13′ N. LAT. 10° 42′ E. LONG. GRW.

DEPTH OF THE SEA 22 M.

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende September 5—28 **1912.**

Meter	5 4^{05} a	5 7^{55} a	5 11^{50} a	5 3^{50} p	5 7^{45} p	5 11^{40} p	17 3^{44} a	17 7^{50} a	17 11^{46} a	17 3^{45} p	17 7^{47} p	17 11^{45} p
2½	N 47 E 12	N 63 E 17	S 89 E 11	N 45 E 21	N 07 E 36	N 35 E 20	S 43 E 21	S 04 W 71	S 12 E 108	S 23 E 58	S 23 E 67	S 09 W 67
5	S 28 E 23	N 64 E 17	S 09 E 31	N 15 E 21	N 03 W 46	N 65 E 23	S 02 E 43	S 04 W 91	S 113	S 08 W 66	S 13 E 93	S 09 W 83
10	S 28 E 36	S 62 W 23	S 20 E 36	N 36 E 19	N 02 W 24	N 55 W 17	S 14 E 23	S 24 W 54	S 107	S 09 W 64	S 01 E 79	S 02 E 80
15	S 30 E 47	S 62 W 34	S 12 W 45	N 03 E 17	N 18 W 30	S 25 E 32	S 43 W 11	S 03 E 46	S 01 E 95	S 20 E 42	S 10 W 68	S 01 E 86
20	S 25 W 35	S 63 W 28	S 02 W 44	N 44 E 17	N 41 W 26	S 16 W 25	N 03 W 19	S 24 W 57	S 41	S 87 E 28	S 07 W 57	S 02 E 64
	6 3^{45} a	**6** 7^{50} a	**6** 11^{50} a	**6** 4^{00} p	**6** 7^{50} p	**6** 11^{45} p	**18** 3^{45} a	**18** 7^{50} a	**18** 11^{45} a	**18** 3^{45} p	**18** 7^{50} p	**18** 11^{45} p
$2^1/_2$	N 40 E 32	N 34 E 29	S 65 W 12	N 25 E 23	N 09 E 46	S 86 E 8	S 19 E 29	N 52 E 19	N 21 E 23	S 75 E 58	N 54 E 34	S 32 E 20
5	N 26 E 36	N 34 E 23	N 55 E 17	N 15 E 29	N 29 E 53	N 84 E 11	S 19 E 36	S 77 E 20	N 31 E 32	N 30 E 69	N 64 E 44	N 78 E 23
10	N 63 W 17	N 24 E 34	S 23 E 12	S 24 W 13	N 19 E 34	S 05 W 16	S 19 E 35	S 55 E 18	N 42 E 47	N 30 E 65	N 23 E 47	N 39 E 36
15	S 80 W 18	N 50 W 26	S 16 W 26	S 06 W 13	N 07 W 26	S 05 W 29	S 19 E 8	N 04 W 24	N 18 E 48	N 10 W 52	N 14 E 57	N 14 E 47
20	S 71 W 21	N 26 E 19	S 05 W 31	S 07 W 8	N 64 W 8	S 18 E 49	N 34 E 18	N 19 W 27	N 03 W 52	N 16 W 61	N 02 E 55	N 36 W 21
	7 3^{42} a	**7** 7^{54} a	**7** 11^{47} a	**7** 3^{50} p	**7** 7^{48} p	**7** 11^{40} p	**19** 3^{45} a	**19** 7^{50} a	**19** 11^{47} a	**19** 3^{45} p	**19** 7^{45} p	**19** 11^{45} p
2½	S 51 E 13	N 08 E 20	N 29 E 8	S 60 W 8	N 14 E 53	N 31 E 23	N 30 E 8	N 03 W 48	N 15 W 16	N 15 W 20	N 01 W 67	S 79 E 13
5	S 09 W 20	N 08 E 29	N 41 W 11	N 05 W 16	N 14 E 52	N 09 W 20	N 20 E 25	N 13 W 58	N 15 W 25	N 37 E 19	N 20 E 63	S 21 W 21
10	S 09 W 21	N 85 W 29	N 34 E 8	S 35 E 5	N 09 E 68	N 09 W 42	N 30 E 32	N 13 W 57	N 17 E 24	N 26 E 18	N 32 E 56	S 21 W 20
15	S 23 E 29	N 80 W 12	N 11	S 35 E 13	N 14 W 55	N 03 E 33	N 30 E 31	N 02 W 55	N 20 E 14	N 15 E 17	N 07 E 57	N 81 W 20
20	S 11 E 36	N 38 E 15	N 10	S 05 E 8	N 38 W 46	N 33 W 18	N 33 E 44	N 01 W 53	N 39 W 20	N 27 E 22	N 05 W 52	S 89 W 19
	8 3^{45} a	**8** 7^{45} a	**8** 11^{50} a	**8** 3^{46} p	**8** 7^{54} p	**8** 11^{47} p	**20** 3^{45} a	**20** 7^{52} a	**20** 11^{45} a	**20** 3^{50} p	**20** 7^{53} p	**20** 11^{50} p
2½	S 33 E 16	N 14 E 53	S 78 E 17	N 89 E 8	N 02 E 59	N 20 E 55	S 15 W 13	N 14 W 57	N 34 E 11	S 29 W 25	N 09 W 64	N 71 W 17
5	N 13 W 13	N 14 E 71	N 08 W 17	N 39 E 13	N 09 W 69	N 16 E 35	S 35 W 16	N 04 W 56	S 25 E 6	S 11 E 30	N 01 E 49	N 81 W 20
10	N 48 E 37	N 08 E 45	N 14 E 26	N 39 E 20	N 08 W 56	N 34 E 19	S 15 W 20	N 24 E 55	S 54 W 11	S 29 E 20	N 02 W 42	N 49 W 23
15	N 31 E 18	N 02 E 43	N 20 W 10	N 50 E 10	N 08 W 54	S 68 W 18	S 27 W 19	N 22 W 46	N 26 W 11	S 18 E 18	N 21 W 37	N 86 W 19
20	E 17	N 14 W 35	N 43 W 15	S 19 E 9	N 04 W 28	S 56 W 14	S 05 W 14	N 23 W 43	N 71 W 11	S 18 E 20	N 26 W 34	N 63 W 22
	9 3^{42} a	**9** 7^{47} a	**9** 11^{50} a	**9** 3^{50} p	**9** 7^{47} p	**9** 11^{42} p	**21** 3^{47} a	**21** 7^{55} a	**21** 11^{48} a	**21** 3^{50} p	**21** 7^{49} p	**21** 11^{45} p
2½	N 27 E 12	N 09 E 26	N 26 E 23	S 62 W 11	N 51 E 25	N 44 E 18	N 52 W 11	N 01 W 37	N 02 E 20	S 48 W 13	N 27 E 40	N 12 E 34
5	N 47 E 12	N 20 E 32	N 21 E 36	S 52 W 24	S 87 E 16	N 04 E 33	S 08 W 31	N 06 W 32	N 13 W 13	S 13 W 21	N 13 W 48	N 02 E 39
10	S 03 E 36	N 41 E 22	N 17 E 31	S 30 E 20	N 38 W 33	N 12 W 24	S 12 E 52	N 16 W 30	N 44 W 13	S 03 W 19	N 14 W 29	N 24 E 30
15	S 18 W 41	N 84 W 13	N 23 E 27	S 04 W 41	N 18 W 24	N 31 E 42	S 07 E 53	N 23 W 22	N 48 W 12	S 16 E 14	N 14 W 31	N 01 E 30
20	S 07 W 35	S 79 W 18	N 10 E 12	S 15 W 39	N 01 E 31	N 02 W 40	S 14 E 48	N 35 W 22	N 59 W 10	S 76 E 7	N 14 W 30	N 32 W 37
	10 3^{45} a	**10** 7^{47} a	**10** 11^{42} a	**10** 3^{47} p	**10** 7^{50} p	**10** 11^{42} p	**22** 3^{45} a	**22** 7^{52} a	**22** 11^{51} a	**22** 3^{56} p	**22** 7^{46} p	**22** 11^{45} p
2½	S 60 E 16	N 08 W 29	N 27 E 41	N 71 E 11	S 42 W 16	N 02 E 70	S 04 W 16	N 09 W 43	N 14 E 38	S 17 W 4	N 19 W 30	N 13 W 25
5	S 30 E 33	N 18 W 33	N 27 E 48	S 41 W 16	N 12 E 16	N 13 E 65	S 06 E 25	N 26 E 15	N 14 E 41	N 83 W 7	N 34 W 29	N 23 W 29
10	S 48 W 15	N 06 E 31	N 16 E 53	S 40 E 25	N 39 E 21	N 13 E 56	S 06 E 24	N 21 W 6	N 03 W 22	S 44 W 6	N 08 E 12	N 19
15	S 08 E 14	N 18 E 31	N 06 W 54	S 60 E 32	N 12 E 14	N 01 E 38	S 06 E 20	N 82 W 10	N 56 W 16	S 05 W 13	N 89 W 6	N 34 W 18
20	S 44 E 14	N 05 W 33	N 08 W 42	S 61 W 16	N 39 E 14	N 01 E 30	S 24 W 14	N 64 W 12	N 53 W 10	N 40 W 7	S 86 W 12	W 14
	11 3^{48} a	**11** 7^{51} a	**11** 11^{52} a	**11** 3^{50} p	**11** 7^{50} p	**11** 11^{45} p	**23** 3^{44} a	**23** 7^{51} a	**23** 11^{46} a	**23** 3^{46} p	**23** 7^{52} p	**23** 11^{45} p
2½	N 64 E 13	N 07 E 36	N 19 E 76	S 05 E 26	N 09 W 33	N 10 W 71	S 14 W 11	N 35 W 18	N 50 W 53			N 11 W 76
5	S 53 E 11	N 18 E 37	N 09 E 83	S 05 W 41	N 30 W 12	N 64	S 04 W 5	N 27 E 9	N 63	N 21 W 37	N 04 W 40	N 30 E 93
10	S 83 E 16	S 38 E 26	N 20 E 63	S 06 E 54	S 10 E 20	N 12 E 55	S 56 E 11	S 50 E 9	N 48 E 30	N 28 E 22	N 11 E 52	N 30 E 81
15	S 52 E 24	S 06 E 21	N 33 W 48	S 09 W 57	S 19 E 22	N 13 E 47	S 37 E 11	S 25 W 11	N 01 E 28	N 16 E 6	N 06 W 35	N 26 E 78
20	S 76 E 36	S 05 E 12	N 15 W 25	S 04 E 59	S 09 E 16	N 45	S 39 E 19	S 26 E 11	N 27	S 08 E 6	S 03 W 11	N 03 W 60
	12 3^{45} a	**12** 7^{50} a	**12** 11^{50} a	**12** 3^{55} p	**12** 7^{50} p	**12** 11^{45} p	**24** 3^{45} a	**24** 7^{46} a	**24** 11^{49} a	**24** 3^{54} p	**24** 7^{50} p	**24** 11^{47} p
2½	N 52 W 11	N 12 W 40	N 15 E 79	N 03 W 16	N 15 W 29	N 07 E 80	N 47 W 34	N 50 W 40	N 16 W 78	N 08 W 46	S 33 W 6	N 12 W 44
5	S 02 E 11	N 10 E 17	N 15 E 74	S 53 E 13	N 15 W 25	N 14 W 65	N 24 E 44	N 04 W 49	N 20 E 84	S 50 E 7	0 0	N 01 W 48
10	S 78 E 11	N 74 E 16	N 15 E 63	S 13 E 13	S 15 E 17	N 09 E 49	N 24 E 58	N 35 E 33	N 28 E 49	S 08 E 4	S 42 E 7	N 02 W 34
15	N 80 E 21	S 42 E 17	N 03 E 52	S 08 W 25	S 05 E 26	N 09 W 43	N 01 E 45	N 24 E 27	N 07 E 50	S 09 E 13	S 17 E 17	N 36 W 29
20	N 89 E 30	S 04 E 19	N 25 W 31	S 03 E 42	S 05 E 29	N 03 W 29	N 12 W 26	N 24 E 18	N 16 W 45	S 10 W 20	S 10 W 12	N 68 W 17
	13 3^{44} a	**13** 7^{50} a	**13** 11^{5} a	**13** 3^{45} p	**13** 7^{47} p	**13** 11^{47} p	**25** 3^{44} a	**25** 7^{48} a	**25** 11^{52} a	**25** 3^{45} p	**25** 7^{44} p	**25** 11^{44} p
2½	N 59 W 20	N 19 W 20	N 15 E 23	S 36 E 20	S 25 E 70	N 76 W 17	N 02 W 25	S 30 E 13	N 06 W 59	S 19 W 9	N 40 W 13	N 25 W 59
5	N 59 W 12	S 01 W 20	N 15 E 36	S 04 W 36	S 04 E 73	N 66 W 12	S 02 E 16	S 08 E 11	N 06 W 31	S 14 W 9	S 89 W 4	N 25 W 47
10	S 51 W 17	S 01 W 44	N 83 W 12	S 25 W 22	S 04 E 55	S 66 E 17	N 52 W 13	S 39 E 11	N 06 W 21	S 19 W 9	S 12 E 4	N 14 W 48
15	S 09 E 23	S 10 E 47	N 54 W 19	S 14 W 47	S 07 W 65	N 33 W 12	S 06 W 13	S 07 E 19	S 29 W 15	S 06 E 25	S 11 E 20	N 40 W 18
20	S 01 W 31	S 20 E 34	N 07 E 15	S 14 W 46	S 07 W 62	N 15 W 23	S 04 W 21	S 02 E 17	S 30 W 14	S 05 W 25	S 04 W 23	N 70 W 9
	14 3^{45} a	**14** 7^{50} a	**14** 11^{47} a	**14** 3^{51} p	**14** 7^{50} p	**14** 11^{43} p	**26** 3^{45} a	**26** 7^{49} a	**26** 11^{47} a	**26** 3^{51} p	**26** 7^{50} p	**26** 11^{45} p
2½	S 27 W 48	S 33 E 77	S 43 E 64	S 06 E 96	S 32 E 94	S 53 E 55	N 01 E 16	N 14 E 7	N 05 E 43	S 40 E 6	N 20 W 13	N 15 W 48
5	S 17 W 35	S 91	S 66 E 67	S 05 W 87	S 32 E 115	S 22	S 71 W 11	N 01 W 9	N 15 E 35	S 15 W 7	N 10 W 14	N 15 W 41
10	S 05 E 35	S 16 E 73	S 34 E 51	S 14 E 58	S 49 E 92	N 40 E 20	S 83 W 13	S 05 W 4	N 15 E 42	S 43 W 7	N 09 E 7	N 05 W 47
15	S 05 E 34	S 14 W 49	S 10 E 46	N 71 E 13	S 55 E 54	N 16 W 24	S 20 W 20	S 01 E 24	N 72 W 7	S 21	S 05 W 19	N 30 W 20
20	S 07 W 38	S 02 W 70	N 42 W 16	N 85 W 25	S 49 E 62	N 26 W 21	S 21 W 24	S 14 W 26	S 60 W 10	S 30	S 05 W 16	S 87 W 13
	15 3^{45} a	**15** 7^{46} a	**15** 11^{46} a	**15** 3^{49} p	**15** 7^{45} p	**15** 11^{46} p	**27** 3^{45} a	**27** 7^{48} a	**27** 11^{48} a	**27** 4^{07} p	**27** 7^{49} p	**27** 11^{43} p
2½	S 06 E 64	S 32 E 108	N 72 E 34	S 52 E 25	S 15 W 40	N 71 E 18	N 20 W 23	N 20 W 18	N 35 E 48	N 05 W 11	N 04 E 14	N 06 W 74
5	S 06 E 79	S 32 E 96	N 32 E 44	N 38 E 16	S 15 W 44	N 41 E 20	N 71 W 11	N 02 E 13	N 06 W 31	W 7	N 01 W 11	N 15 E 69
10	S 39 E 18	S 53 E 65	N 14 W 32	N 38 E 21	S 06 E 45	N 10 E 29	S 47 W 11	N 27 E 10	N 22 E 24	S 51 W 9	N 01 W 14	N 15 E 49
15	N 66 E 5	S 46 E 88	N 22 W 39	N 09 E 9	S 18 E 37	N 22 E 41	S 18 W 16	S 24 W 28	N 48 W 9	S 01 E 19	S 04 W 20	N 38 W 17
20	N 65 W 1	N 21 E 45	N 34 W 44	N 40 W 20	S 07 W 28	N 10 E 40	S 18 W 20	S 14 W 23	N 48 W 9	S 06 W 16	S 04 W 19	N 13 W 9
	16 3^{45} a	**16** 7^{50} a	**16** 11^{45} a	**16** 3^{50} p	**16** 7^{48} p	**16** 11^{45} p	**28** 3^{43} a	**28** 7^{48} a	**28** 11^{51} a	**28** 3^{47} p	**28** 7^{47} p	**28** 11^{45} p
2½	N 71 W 20	S 86 E 9	N 40	S 76 E 23	S 86 E 16	S 15 E 23	N 12 W 55	N 18 E 46	N 09 E 79	N 12 W 42	N 03 W 51	N 05 W 84
5	N 31 W 32	N 16 W 22	N 31 E 39	S 26 E 32	N 66 W 16	S 05 E 29	N 12 W 19	N 07 E 24	N 15 E 76	N 12 W 41	N 13 W 46	N 08 E 70
10	N 41	N 16 W 23	N 10 E 41	S 26 E 45	S 32 W 13	S 05 E 22	N 23 W 18	N 08 W 23	N 09 E 59	N 04 W 12	S 05 E 16	N 15 W 45
15	N 14 E 21	N 17 E 22	N 22 E 37	N 21 W 38	S 10 E 16	S 16 W 31	S 13 W 19	S 11 W 5	N 12 W 46	S 11 W 19	S 04 E 25	N 30 W 16
20	N 21	N 32 E 21	N 10 E 38	N 12 W 24	S 21 W 19	S 05 E 27	S 23 W 18	S 29 W 11	S 81 W 21	S 21 E 26	S 04 E 22	N 07 W 60

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende September 29—October 22 1912.

Meter	29 3⁴¹ a	29 7⁵¹ a	29 11⁴⁶ a	29 3⁵¹ p	29 7⁵⁰ p	29 11⁴⁶ p	11 3⁴¹ a	11 7⁴⁸ a	11 11⁴⁶ a	11 3⁴⁶ p	11 7⁴⁸ p	11 11⁴⁸ p
2½	N 06 W 71	N 07 W 80	N 11 W 96	N 01 W 64	N 06 W 55	N 15 W104	S 67 W 13	N 27 E 18	N 04 W 57	S 30 W 8	N 16 W 17	N 44 E 65
5	N 04 E 61	N 15 E 73	N 88	N 20 E 63	N 09 E 45	N 05 E 102	S 34 W 16	N 76 E 20	N 08 W 58	S 41 W 11	N 35 W 12	N 35 E 59
10	N 05 E 45	N 29 E 43	N 11 E 65	S 60 W 15	S 87 E 4	N 06 E 86	S 40 W 21	S 37 W 12	N 16 W 19	S 01 W 57	S 20 W 26	N 49
15	S 61 W 9	S 25 W 33	N 01 W 51	S 13 W 30	S 13 W 36	S 39 W 13	S 03 E 49	S 41 W 23	N 30 W 10	S 11 W 57	S 26 E 46	N 05 W 34
20	S 16 W 39	S 24 W 27	N 02 W 25	S 44	S 17 W 27	N 16 W 27	S 06 E 59	S 40 W 13	N 54 W 16	S 12 W 45	S 13 W 24	N 23 W 30
	30 3⁴⁵ a	**30** 7⁵⁰ a	**30** 11⁴⁶ a	**30** 3⁴⁸ p	**30** 7⁴³ p		**12** 3⁵⁰ a	**12** 7⁴⁹ a	**12** 11³⁵ a	**12** 3⁴⁶ p	**12** 7⁴⁵ p	**12** 11⁵⁰ p
2½	N 21 W 64	N 01 W 58	N 05 W 90	N 09 E 74	N 12 W 51		N 42 W 37	N 36 W 23	N 04 W 61	N 08 W 20	N 04 W 21	N 05 W 56
5	N 19 E 72	N 20 E 77	N 01 E 100	N 09 E 84	N 02 W 65		S 77 W 7	S 89 W 23	N 04 W 54	N 23 W 18	N 06 W 11	N 01 E 71
10	N 19 E 55	N 39 E 13	N 24 E 93	N 03 E 53			S 05 E 17	S 06 W 27	N 21 W 25	S 72 W 18	S 16 W 29	N 10 W 49
15	S 19 W 33	S 02 E 22	N 31 W 42	S 16 W 26			S 14 E 20	S 01 W 24	N 04 E 31	S 49 W 20	S 01 W 24	N 10 W 45
20	S 31 W 35	S 11 W 25	N 31 W 34	S 08 W 34			S 14 E 18	S 06 E 17	N 09 W 24	S 32 W 18	S 06 E 17	N 10 W 34
			1 11¹⁷ a	**1** 3⁴⁹ p	**1** 7⁴⁶ p	**1** 11⁴⁶ p	**13** 3⁴⁸ a	**13** 7⁴⁶ a	**13** 11⁴⁶ a	**13** 3⁴⁸ p	**13** 7⁴⁴ p	**13** 11⁴⁴ p
2½			N 04 E 88		S 19 E 51	S 01 W146	N 36 W 31	N 36 W 25	N 04 E 80	N 07 W 43	N 30 W 36	N 39 E 74
5			N 14 E 106	N 30 W 27	S 08 W 67	S 01 W143	N 30 W 29	N 20 W 33	N 09 E 81	N 13 E 22	N 12 W 7	N 34 E 90
10			N 32 E 85	N 33 E 29	S 01 W 56	S 01 W 94	N 25 W 14	S 03 E 20	N 21 W 22	S 01 W 4	S 24 W 34	N 09 E 14
15			S 62 W 26	S 09 W 42	S 30 E 97	S 41 W 60	S 36 E 4	S 01 E 22	N 21 W 21	S 29 W 7	S 14 W 47	N 64 W 19
20			S 62 W 25	S 34	S 20 E 97	S 84 E 56	N 54 W 5	S 04 E 14	N 06 W 18	S 30 W 7	S 35 E 16	N 24 W 20
	2 3⁵⁰ a	**2** 7⁵⁰ a	**2** 11⁴⁸ a	**2** 3⁵¹ p	**2** 7⁴⁶ p	**2** 11⁵⁰ p	**14** 3⁴⁵ a	**14** 7⁵⁰ a	**14** 11⁴² a	**14** 3⁴⁸ p	**14** 7⁴⁸ p	**14** 11⁴⁸ p
2½	S 20 W 58	S 20 E 44	N 44 E 53	S 45 E 25	S 01 E 70	S 20 E 53	N 05 E 85	N 03 E 48	N 03 E 94	N 96	N 02 W 71	N 20 E 96
5	S 20 W 47	S 30 E 50	N 28 E 56	S 46 E 21	S 09 W 92	S 20 E 47	N 05 W 46	N 03 E 47	N 03 E 100	N 09 E 116	N 02 W103	N 10 E 96
10	S 20 W 57	S 25 E 39	N 35 E 94	N 43 E 29	S 04 W 79	S 02 W 57	N 07 E 27	S 15 W 17	N 46 W 40	N 09 E 90	S 03 E 29	N 06 E 78
15	S 40 W 21	N 02 W 44	N 66	N 09 E 42	S 03 W 39	S 21 E 33	N 34 W 21	S 05 W 16	S 87 E 3	S 50 W 32	S 13 E 54	N 03 E 32
20	N 20 E 46	N 15 E 33	N 52 W 52	N 12 E 27	S 31 E 15	N 28 E 27	N 26 W 13	S 04 E 15	N 04 E 104	N 22 W 27	S 04 W 49	N 08 E 21
	3 3⁴⁵ a	**3** 7⁴⁹ a	**3** 11⁵² a	**3** 3⁵⁰ p	**3** 8²² p	**3** 11⁴⁴ p	**15** 3⁴⁵ a	**15** 8¹⁶ a	**15** 11³⁵ a	**15** 3⁴⁶ p	**15** 7⁴⁹ p	**15** 11⁴⁴ p
2½	N 03 E 20	N 07 E 49	S 71 E 18	S 46 E 29	S 19 E 40	S 02 E 59	N 50 E 23	S 16 E 124	S 12 E 90	S 10 E 64	S 11 E 29	N 53 E 33
5	N 32 E 38	N 07 E 52	N 80 E 23	S 46 E 34	S 10 E 45	S 12 E 65	0	S 01 W139	S 06 W106	S 13 E 33	S 05 W 36	N 49 E 34
10	N 23	N 10 E 68	N 09 W 23	N 17 E 17	S 49 E 31	S 04 W 67	S 64 E 42	S 06 E 142	S 21 E 78	N 10 W 6	S 16 E 31	N 79 W 14
15	N 28 W 38	N 28 E 72	N 18 W 29	N 18 E 32	S 40 E 21	S 16 W 43	S 13 W 64	S 06 E 143	S 07 W 51	N 10 W 6	N 07 W 5	N 06 W 20
20	N 08 W 57	N 62	N 48 W 32	N 12 E 44	N 47 E 24	S 08 E 12	S 26 E 57	S 16 W120	S 33	N 26 E 28	N 11 E 19	N 17 W 24
	4 3⁵¹ a	**4** 7⁴⁸ a	**4** 11⁴⁹ a	**4** 3⁴⁷ p	**4** 7⁵¹ p	**4** 12⁰⁰ a	**16** 3⁴⁵ a	**16** 7⁴⁸ a	**16** 11⁴² a	**16** 3⁴⁶ p	**16** 7⁴⁷ p	**16** 11⁴⁴ p
2½	S 83 E 13	N 25 E 27	N 79 W 8	N 37 E 19	N 32 E 30	S 43 E 66	N 37 E 44	N 14 E 26	N 20 E 29	N 06 W 57	N 15 E 57	N 21 E 46
5	N 62 E 18	N 28 E 33	S 13 E 13	N 34 E 13	N 32 E 29	S 28 W 80	N 17 E 50	N 10 W 36	N 06 E 26	N 09 W 56	N 06 E 52	N 11 E 36
10	N 84 E 7	N 04 E 38	0	N 07 E 20	N 04 W 29	S 28 W 76	N 12 E 44	N 07 W 30	N 17 W 20	N 06 W 46	N 08 W 44	S 26 W 21
15	N 02 E 64	N 01 W 40	N 66 W 5	N 06 E 24	N 07 E 26	S 29 W 67	N 43	N 11 E 24	N 34 W 5	N 06 W 37	S 10	S 11 E 37
20	N 24 W 76	N 05 E 25	N 83 W 9	N 14 E 23	N 26 W 7	S 16 W 60	N 12 W 34	N 28 W 30	S 5	N 08 W 20	S 10	S 18 W 32
	5 3⁴⁴ a	**5** 7⁵² a	**5** 11⁴⁸ a	**5** 3⁵⁰ p	**5** 7⁴⁸ p	**5** 11⁴⁵ p	**17** 3⁴⁸ a	**17** 7⁵⁰ a	**17** 11⁴⁶ a	**17** 3⁵² p	**17** 7⁵³ p	**17** 11⁴⁶ p
2½	S 80 E 36	N 30 E 36		0	N 04 E 36	0	N 11 E 84	N 05 E 59	N 01 W 43	N 24 E 76	N 63 W 5	S 15 W 66
5	S 45 E 44	N 25 E 37	S 11 E 33	S 25 E 25	N 09 E 32	S 65 E 11	N 30 E 89	N 03 E 63	N 03 E 45	N 24 E 78	N 53 W 5	S 08 W 84
10	S 35 W 29	N 21 W 20	S 18 W 26	S 11 E 10	N 07 W 34	S 49 E 11	N 32 E 53	N 12 E 37	S 04 E 21	N 13 W 42	S 20 E 11	S 17 E 76
15	S 09 E 45	N 26	S 13 W 31	S 10 E 20	N 14 W 17	S 11 W 24	N 27 W 41	N 05 W 24	S 10 W 50	N 64 W 8	S 10 E 58	S 11 E 79
20	S 06 W 20	S 26 W 15	S 01 E 42	N 20 W 4	N 40 W 12	S 10 E 33	N 74 W 25	N 34 E 1	S 04 W 42	N 62 W 8	S 06 E 72	S 11 E 80
	6 3⁵⁰ a	**6** 7⁵¹ a	**6** 11⁴⁸ a	**6** 3⁵⁰ p	**6** 7⁴⁶ p	**6** 11⁴⁵ p	**18** 3⁴⁶ a	**18** 7⁵¹ a	**18** 11⁴⁰ a	**18** 3⁴⁵ p	**18** 7⁴⁶ p	**18** 11⁴⁸ p
2½	S 20 E 16	N 12 E 79	N 02 E 39	N 08 W 31	N 11 E 98	N 19 W 48	S 20 W 33	S 29 E 13	S 05 E 16	N 05 W 36	N 09 E 45	S 77 W 11
5	S 30 E 18	N 12 E 74	N 02 E 44	N 08 W 26	N 11 E 89	N 13 E 53	S 30 E 29	N 27 W 8	S 31 E 18	N 26 E 42	N 20 E 52	S 27 W 13
10	S 31 W 25	N 07 E 72	N 02 E 24	S 02 W 17	N 03 W100	N 01 E 46	S 22 E 30	N 28 E 20	N 26 E 18	N 14 E 42	N 04 W 29	S 39 W 11
15	S 50 E 39	N 14 E 57	S 07 E 34	S 02 E 51	N 83 W 42	N 12 W 18	S 36 W 22	N 19 E 10	N 11 E 18	N 04 W 39	N 06 W 20	S 08 W 25
20	S 05 E 43	N 02 W 44	S 12 E 42	S 04 W 40	N 12 W 59	S 08 E 47	N 11 E 17	N 26 E 9	N 14 W 17	N 04 W 37	N 09 E 13	S 02 E 30
	7 3⁴⁶ a	**7** 7⁵⁰ a	**7** 11⁵⁰ a	**7** 3⁵¹ p	**7** 7⁵⁰ p	**7** 11⁴⁶ p	**19** 3⁴⁵ a	**19** 8¹⁹ a	**19** 12⁰⁴ p	**19** 3⁵⁸ p	**19** 7⁴⁹ p	**19** 11⁵⁰ p
2½	N 40 E 16	N 17 E 73	N 12 E 51	N 02 E 36	N 34 E 90	N 20 E 32	S 55 W 11	N 32 E 64	N 05 E 36	N 02 W 44	N 03 W 23	N 46 W 7
5	N 64 E 29	N 24 E 75	N 07 E 47	N 07 E 35	N 34 E 86	N 04 E 36	S 65 E 20	N 22 E 45	N 17 E 31	N 40 E 48	N 07 E 29	N 86 W 6
10	S 20 W 47	S 20 W 15	S 16 W 14	S 02 W 38	N 07 E 46	S 05 W 4	S 45 E 25	N 65 W 11	N 16 E 41	S 35 E 24	S 07 W 18	S 11 E 34
15	S 05 W 58	S 20 W 14	S 03 E 21	S 13 E 80	N 22 W 19	S 10 E 26	S 09 W 28	N 17 W 18	N 18 W 34	S 10 W 25	S 02 E 20	S 11 E 41
20	S 05 W 75	N 49 W 14	S 01 E 20	S 14 E 64	N 14 W 11	S 10 W 33	S 11 W 32	N 30 W 18	N 50 W 17	S 15 W 21	S 28 W 23	S 05 W 42
	8 3⁵⁰ a	**8** 7⁵⁴ a	**8** 11⁴⁴ a	**8** 3⁴⁴ p	**8** 7⁴⁶ p	**8** 11⁴⁸ p	**20** 3⁴⁸ a	**20** 7⁵⁰ a	**20** 11⁵⁰ a	**20** 3⁵⁰ p	**20** 7⁵⁵ p	**20** 11⁴⁵ p
2½	S 68 E 16	S 12 W 13	0	S 05 E 9	N 14 W 34	N 10 W 59	W 8	N 11 E 70	N 01 E 57	N 35 W 33	N 10 E 76	N 10 W 74
5	S 17 W 23	S 10 W 7	S 50 W 11	S 35 E 11	N 07 E 44	N 10 W 73	N 10 E 8	N 22 E 79	N 01 E 57	N 55 W 37	N 20 E 65	N 20 W 90
10	S 10 W 48	N 74 E 19	N 35 E 9	S 16 W 24	N 06 E 53	N 01 E 75	S 80 E 11	N 16 E 61	N 23 W 25	S 11 W 14	N 08 E 34	S 26 W 14
15	S 09 W 95	S 76 W 12	N 66 E 7	S 11 E 8	N 18 E 45	N 02 E 68	S 20 E 13	N 02 W 53	N 26 W 19	S 10 W 12	N 06 E 24	N 20 W 14
20	S 04 W 93	N 34 W 8	N 51 E 4	S 10 W 8	N 23 E 57	N 13 W 38	S 26 W 8	N 14 W 47	N 03 W 3	S 05 W 17	N 09 E 32	S 53 W 20
	9 3⁴⁵ a	**9** 7⁴⁵ a	**9** 11⁴⁶ a	**9** 3⁴⁵ p	**9** 7⁴⁶ p	**9** 11⁵⁰ p	**21** 3⁴⁵ a	**21** 7⁵⁰ a	**21** 11⁴⁵ a	**21** 3⁴⁶ p	**21** 7⁵⁰ p	**21** 11⁴⁴ p
2½	N 05 W 25	N 05 W 53	N 80	N 21 W 27	N 02 E 48	N 01 W 65	N 14 E 55	N 15 W 96	N 08 W124	N 08 W 96	N 21 W136	N 13 W 84
5	N 17 W 20	N 55	N 70	N 26 W 20	N 02 E 41	N 04 E 53	N 06 W 69	N 18 E 145	N 05 E 138	N 03 E 115	N 14 E 163	N 02 W107
10	S 39 E 12	N 56 E 3	N 06 E 57	N 10 W 15	N 80 W 5	N 05 E 45	S 05 E 69	N 41 E 78	N 86 E 56	N 20 E 90	N 13 E 115	N 29 E 67
15	S 11 E 19	N 85 W 6	N 37	S 03 E 12	S 89 W 6	N 13 E 38	S 10 W 58	N 87 W 13	N 33 E 73	S 24 E 22	N 80 E 83	N 07 E 56
20	S 11 E 25	N 28 E 12	N 10 W 19	S 16 E 14	N 56 W 3	N 05 W 23	S 19 W 31	N 18 W 67	N 27 E 79	N 37 W 43	N 26 E 115	N 33 W 42
	10 3⁴⁵ a	**10** 7⁵⁰ a	**10** 11⁴⁴ a	**10** 3⁴⁵ p	**10** 7⁴⁶ p	**10** 11⁵⁵ p	**22** 3⁵⁰ a	**22** 7⁵² a	**22** 11⁵⁰ a	**22** 3⁴⁸ p	**22** 7⁴⁵ p	**22** 11⁴⁴ p
2½	N 30 W 26	N 07 E 61	N 71	N 31 W 42	N 02 E 34	N 10 W 67	N 12 W 96	N 26 W108	N 12 W 96	N 22 W 76	N 06 W124	N 12 W 75
5	N 30 W 23	N 02 W 47	N 61	N 63 W 26	N 08 E 38	N 10 W 57	N 01 W110	N 19 E 144	N 11 E 87	N 11 E 91	N 05 E 163	N 02 W119
10	S 18 W 21	S 53 W 14	N 06 E 55	S 18 E 21	S 14 W 9	N 10 W 45	N 73	N 17 E 134	N 10 E 102	N 20 E 74	N 25 E 118	N 02 W122
15	S 20 W 32	S 56 W 8	N 47	S 02 E 34	S 04 W 18	N 10 W 30	S 77 E 38	N 16 E 128	N 13 E 47	N 75	N 50 E 94	N 14 E 135
20	S 09 W 31	S 77 W 4	N 14 W 44	S 07 E 34	S 34 W 14	N 27 W 29	S 03 W 45	N 19 E 64	N 10 E 75	S 05 W 43	N 81 E 61	N 14 W 80

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende October 23—November 15 1912.

Meter	23 3⁵⁵ a	23 7⁵¹ a	23 11⁵⁰ a	23 3⁵² p	23 7⁵⁰ p	23 11⁵⁰ p	4 3⁴⁵ a	4 7⁵⁰ a	4 11⁴⁶ a	4 3⁴⁸ p	4 7⁴⁸ p	4 11⁴⁵ p
2½	N 23 W 96	N 32 W124	N 12 W124	N 31 E 96	N 12 W 96	N 12 W124	N 08 E 16	N 49 E 25	S 01 E 60	S 10 E 24	N 01 W 43	S 81 E 7
5	N 01 W143	N 12 E 167	N 11 E 139	N 43 E 115	N 143	N 138	N 08 E 20	N 30 E 33	S 30 W 58	S 10 E 26	N 30 E 49	S 81 E 11
10	N 88	N 12 E 145	N 10 E 156	N 68 E 59	N 26 E 164	N 15 E 132	N 13 W 25	N 14 W 28	S 09 W 54	S 20 E 31	N 40 E 56	S 81 E 9
15	N 22 W 92	N 10 E 135	N 10 E 112	N 57 E 84	N 46 E 122	N 04 E 110	N 12 W 30	N 34 W 28	S 08 W 58	S 10 E 33	N 10 W 29	S 70 W 14
20	N 39 E 83	N 10 E 100	N 09 E 106	N 82 E 72	N 09 E 119	N 03 E 131	N 13 W 27	N 14 W 21	S 04 E 62	S 03 E 26	N 26 W 23	S 20 W 30
	24 3⁴⁸ a	**24** 7⁵⁰ a	**24** 11⁴⁸ a	**24** 3⁴⁶ p	**24** 7⁴⁸ p	**24** 11⁴⁷ p	**5** 3⁵⁰ a	**5** 7⁵⁰ a	**5** 11⁴⁸ a	**5** 3⁴⁸ p	**5** 7⁴⁵ p	**5** 11⁴⁵ p
2½	N 20 E 77	N 12 W124	N 17 W124	N 07 W 96	N 12 W124	N 22 W124	S 38 W 7	N 19 E 58	N 16 W 44	S 19 W 11	N 12 W 58	N 03 W 41
5	N 31 E 113	N 138	N 07 E 111	N 19 E 68	N 10 E 138	N 01 E 134	S 11 W 21	N 40 E 63	N 45 E 48	N 51 W 19	N 40 E 75	N 39 E 40
10	N 25 E 134	N 16 E 120	N 07 E 86	N 16 E 76	N 10 E 131	N 02 E 94	S 11 W 63	N 16 W 30	N 46 E 31	S 79 E 12	N 29 E 55	N 16 E 49
15	N 35 W 35	N 36 E 110	N 33 E 73	N 16 E 64	N 12 E 66	N 22 E 102	S 14 E 69	N 01 W 27	N 40 W 14	S 09 W 36	N 01 E 42	N 15 W 25
20	N 50 E 56	N 58 E 57	N 33 E 60	N 25 E 68	N 09 E 86	N 26 E 68	S 13 E 59	N 13 E 21	N 82 W 12	S 19 W 36	N 01 E 41	N 02 W 17
	25 3⁴⁴ a	**25** 7⁵⁰ a	**25** 11⁴⁷ a	**25** 3⁵⁰ p	**25** 7⁵⁰ p	**25** 11⁴⁸ p	**6** 3⁵⁰ a	**6** 7⁵⁰ a	**6** 11⁵⁰ a	**6** 3⁴⁵ p	**6** 7⁴⁵ p	**6** 11⁵⁰ p
2½	N 38 W 88	N 12 W124	N 12 W108	N 13 W 58	N 22 W 67	N 06 W130	N 64 E 13	N 01 W 48	N 01 E 33	N 49 W 9	N 01 E 53	N 08 W 51
5	N 04 E 94	N 138	N 01 W141	N 09 E 75	N 10 E 104	N 137	N 64 E 16	N 09 E 56	N 10 E 39	N 19 W 14	N 01 E 52	N 08 W 63
10	N 28 E 74	N 17 E 104	N 10 E 74	N 30 E 81	N 28 E 70	N 25 E 73	S 83 E 20	N 09 E 65	N 02 E 49	N 50 W 16	N 01 E 46	N 08 W 56
15	N 35 E 60	N 42 E 89	N 18 E 95	S 16 E 86	N 08 W 32	N 17 E 92	S 72 E 17	N 04 W 36	N 12 W 29	S 27	N 50 W 24	N 37 W 19
20	N 10 W 43	N 06 E 79	S 10 E 54	S 14 W 78	S 18 W 35	S 19 E 41	S 25	N 06 W 30	S 01 W 7	S 05 E 39	N 64 W 17	N 38 W 14
	26 3⁵⁰ a	**26** 7⁴⁸ a	**26** 11⁴⁴ a	**26** 3⁵⁰ p	**26** 7⁵² p	**26** 11⁴⁸ p	**7** 3⁴⁵ a	**7** 7⁵⁰ a	**7** 11⁴⁸ a	**7** 3⁴⁵ p	**7** 7⁴⁵ p	**7** 11⁴⁴ p
2½	N 33 W 85	N 32 W 96	N 06 W124	N 12 W 67	N 02 W 67	N 11 W124	S 40 W 16	N 21 E 76	N 08 W 96	S 10 W 34	N 02 E 40	N 22 E 53
5	N 29 E 91	N 10 W106	N 05 E 138	N 19 E 63	N 19 E 66	N 11 W126	S 32 W 13	N 21 E 86	N 08 W 86	S 32	N 13 E 45	N 12 E 48
10	N 30 E 62	N 30 E 68	N 05 E 90	N 20 E 39	N 06 E 35	N 06 E 109	S 34 W 29	N 21 E 65	N 24 W 71	S 21 E 47	N 12 E 35	S 12 W 26
15	S 18 W 46	N 30 E 19	N 05 E 86	S 10 W 42	S 24 W 41	N 09 E 65	S 27 E 46	N 52 W 44	S 15 W 32	S 05 W 79	S 32 E 35	S 11 E 49
20	S 04 W 51	N 30 E 13	N 05 E 70	S 17 W 47	N 34 W 46	N 25 E 109	S 05 W 54	N 64 W 28	S 62 E 26	S 06 E 71	S 01 E 56	S 04 W 48
	27 3⁵⁰ a	**27** 7⁵² a	**27** 12⁰⁵ p	**27** 3⁴⁸ p	**27** 8⁰⁰ p	**27** 11⁴⁸ p	**8** 3⁵⁰ a	**8** 7⁴⁵ a	**8** 11⁴⁵ a	**8** 3⁴⁵ p	**8** 7⁴⁵ p	**8** 11⁴⁸ p
2½	N 12 W 80	N 01 W 67	N 05 W108	N 19 E 76	N 04 E 96	N 01 W151	N 12 E 25	N 42 E 40	N 28 E 20	S 25 W 48	S 06 E 25	N 42 E 13
5	N 02 W 89	N 09 E 57	N 07 E 84	N 14 W 47	N 04 E 86	N 11 E 182	S 75 E 16	N 46 W 11	N 24 W 21	S 36 W 22	S 14 W 21	N 22 E 13
10	N 09 E 53	N 20 E 56	N 06 E 112	N 05 W 28	N 75 E 41	N 30 E 127	S 20 W 53	S 45 E 29	S 16 W 12	S 05 E 65	S 50 E 17	N 40 W 13
15	S 09 E 37	S 16 W 42	S 01 W 46	S 62	S 20 W148	N 09 W 65	S 10 W 51	S 05 E 36	S 63 W 11	S 05 E 67	N 10 E 12	N 10 E 15
20	S 06 W 44	S 09 W 27	N 07 E 45	S 19 W 59	S 16 W 64	N 32 W 61	S 01 W 56	S 06 W 24	S 63 W 11	S 06 W 54	N 16 W 14	N 41 W 25
	28 3⁴⁵ a	**28** 7⁵⁵ a	**28** 11⁴⁸ a	**28** 3⁵⁰ p	**28** 7⁴⁵ p	**28** 11⁴⁷ p	**9** 3⁴⁴ a	**9** 7⁴⁵ a	**9** 11⁴⁸ a	**9** 4⁴⁵ p	**9** 7⁴⁸ p	**9** 11⁴⁵ p
2½	N 09 E 74	N 21 E 48	N 10 E 48	N 22 W 16	N 78 E 34	N 44 E 23	S 19 E 20	N 35 E 14	N 59	N 21 E 27	N 19 W 36	N 69
5	N 09 E 71	N 45 E 15	N 10 E 58	N 08 E 20	S 72 E 58	N 33 W 23	S 49 E 16	N 45 E 23	N 58	N 12 E 29	N 19 W 35	N 10 E 91
10	S 30 W 41	S 04 W 27	S 26 W 21	S 51 E 53	S 22 W 58	N 39 E 20	S 29 E 29	N 17 W 23	N 10 E 56	N 41 W 9	N 28 E 18	N 02 W 46
15	S 01 E 83	S 01 W 60	S 10 W 32	S 20 E 84	S 65	S 13 W 12	S 54 E 9	N 16 E 28	N 23 E 59	N 35 W 16	N 20 E 11	N 02 W 47
20	S 10 E 85	S 01 W 58	S 10 W 16	S 16 W 81	S 11 E 63	S 12 W 10	N 30 E 11	N 15 E 33	N 02 W 53	N 01 E 16	S 59 W 12	N 22 W 10
	29 3⁵⁰ a	**29** 7⁴⁵ a	**29** 11⁴⁸ a	**29** 3⁴⁷ p	**29** 7⁵⁰ p	**29** 11⁴⁵ p	**10** 3⁵⁵ a	**10** 7⁵⁰ a	**10** 11⁴⁸ a	**10** 3⁴⁸ p	**10** 7⁵⁰ p	**10** 11⁵⁰ p
2½	S 71 W 11	S 10 W 13	N 40 E 85	N 24 E 58	N 88 E 36	N 02 E 80	N 10 W 96	N 53	N 12 E 67	N 63 W 16	S 13 E 34	N 40 W 21
5	S 39 E 16	S 10 W 18	N 50 E 74	N 14 E 40	S 20 E 32	N 08 W 78	N 10 W 98	N 84	N 23 E 75	N 63 W 25	S 39 W 41	N 63 E 16
10	S 49 E 33	S 10 W 18	N 04 W 73	S 06 W 37	S 10 W 95	N 12 W 16	N 10 W 6	N 43 E 12	N 10 W 26	N 73 W 46	S 07 W 57	N 74 E 13
15	S 49 E 32	S 42 W 15	N 04 W 70	S 14 E 42	S 16 E 108	N 12 W 15	S 81 W 29	N 87 W 21	N 28 W 26	N 52 W 75	S 18 W 57	S 56 E 13
20	S 49 E 27	S 45 W 9	N 04 W 67	S 06 W 44	S 38 W 57	N 14 W 9	S 28 E 32	S 54	S 42	N 52 W 69	S 18 W 54	S 58 E 16
	30 3⁴⁵ a	**30** 7⁵⁰ a	**30** 11⁴⁸ a	**30** 3⁵⁰ p	**30** 7⁴⁵ p	**30** 11⁴⁸ p	**11** 3⁴⁵ a	**11** 7⁴⁸ a	**11** 11⁴⁵ a	**11** 3⁴⁵ p	**11** 7⁴⁴ p	**11** 11⁴⁶ p
2½	S 49 E 21	S 34 W 11	N 19 W 59	N 15 W 7	S 10 W 9	N 42 E 48	N 41 E 16	N 30 E 53	N 10 E 124	N 23 W 53	N 19 E 16	N 20 E 67
5	S 49 E 34	S 24 W 25	N 08 W 28	N 20 W 11	N 50 E 13	N 31 E 22	N 31 E 18	N 50 E 63	N 34 E 122	N 29 E 58	N 09 E 21	N 41 E 84
10	S 04 E 29	S 06 E 35	S 30 W 18	S 19 W 11	S 28 E 19	N 15 W 20	S 23 W 14	N 30 W 31	N 33 E 140	N 66 E 35	N 40 E 21	N 16 E 43
15	S 18 E 51	S 06 E 44	N 05 W 18	S 21 E 7	S 08 E 18	N 09 W 11	S 13 W 13	N 36 W 26	N 11 E 106	N 58 W 33	S 39 E 26	N 14 E 34
20	S 19 E 55	S 04 W 37	N 28 W 12	N 41 W 7	S 09 E 13	N 36 W 24	S 03 W 18	N 29 W 29	N 17 W 92	S 46 E 18	S 20 W 33	N 30 E 16
	31 3⁵⁰ a	**31** 7⁵⁰ a	**31** 11⁴⁵ a	**31** 3⁴⁸ p	**31** 7⁴⁸ p	**31** 11⁵⁰ p	**12** 3⁵⁰ a	**12** 7⁵⁰ a	**12** 11⁵⁰ a	**12** 3⁴⁵ p	**12** 7⁴⁶ p	**12** 11⁵⁰ p
2½	N 12 E 80	N 32 E 53	N 01 E 59	N 14 E 46	S 72 E 11	S 20 W 59	N 38 W 34	S 24 W 16	N 01 E 58	N 20 E 33	N 38 E 31	N 32 W 48
5	N 09 W 79	N 23 E 38	N 10 W 58	N 24 E 53	S 82 E 11	S 20 W 90	N 14 E 34	N 24 E 30	N 01 E 66	N 30 E 39	N 29 E 40	N 29 E 58
10	N 09 W 54	N 23 E 51	N 02 E 49	N 03 E 50	S 11 E 36	S 14 E 55	N 05 W 40	S 31 E 17	N 13 E 64	N 20 E 31	S 34	N 25 E 34
15	N 10 W 42	N 13 W 36	N 02 E 26	S 34 W 19	S 19 W 90	S 12 E 74	N 35 E 27	S 06 W 22	N 13 W 54	S 21 W 21	S 10 W 36	N 10 E 19
20	N 10 W 58	N 50 W 9	N 15 W 17	S 18 W 20	S 14 W 86	S 14 E 50	N 74 E 32	S 15 W 27	N 30 W 40	S 05 W 22	S 10 W 28	N 04 W 19
	1 3⁴⁵ a	**1** 7⁴⁹ a	**1** 11⁵⁰ a	**1** 3⁴⁹ p	**1** 7⁴⁵ p	**1** 11⁴⁴ p	**13** 3⁴⁸ a	**13** 7⁵⁰ a	**13** 11⁴⁵ a	**13** 3⁴⁵ p	**13** 7⁴⁵ p	**13** 11⁴⁵ p
2½	S 79	S 26 E 94	S 21 E 96	N 52 E 16	S 36 E 33	N 08 E 12	N 25 E 25	N 34 E 21	S 02 W 20	N 85 W 25	S 15 W 23	S 12 W 25
5	S 92	S 06 W 96	S 11 E 116	S 38 E 16	N 60 W 20	N 82 W 26	N 25 E 29	S 72 W 25	S 38 E 36	N 05 E 40	S 15 W 23	S 12 W 40
10	S 30 E 38	S 18 E 79	S 11 E 102	N 51 E 16	N 66 E 33	S 85 W 11	N 06 E 32	S 26 E 20	S 38 E 47	N 16 E 52	S 25 W 23	S 03 W 42
15	S 27 E 43	S 76 E 40	S 10 W 13	N 10 W 71	N 34 E 31	N 09 E 34	N 61 E 13	S 03 W 29	S 60 E 34	N 17 W 50	N 64 E 37	S 10 E 44
20	S 78 E 21	S 12 W 34	N 10 E 51	N 03 E 53	N 24 W 24	N 09 E 41	N 89 E 5	S 04 W 35	N 56 W 27	N 17 W 48	N 13 E 29	S 02 W 20
	2 3⁴⁹ a	**2** 7⁴⁵ a	**2** 11¹⁷ a	**2** 3¹⁵ p	**2** 7⁴⁸ p	**2** 11⁴⁸ p	**14** 3⁴⁵ a	**14** 7⁵⁰ a	**14** 11⁴⁵ a	**14** 3⁴⁵ p	**14** 7⁴⁵ p	**14** 11⁴⁰ p
2½	N 75 W 11	S 31 E 71	S 26 E 76	S 12 E 85	S 01 E 85	S 21 E 85	N 71 E 20	S 21 W 59	S 01 W 53	S 09 E 16	S 05 E 46	S 20 E 74
5	S 75 W 21	S 02 W 92	S 15 W 93	S 40 W 84	S 09 W 83	S 21 E 83	N 60 E 29	S 10 W 69	S 01 W 45	S 79 E 16	S 05 E 55	S 20 E 79
10	N 23 W 21	S 02 W 68	S 15 W 71	S 04 W 42	S 01 E 83	S 21 E 53	N 30 E 32	S 10 W 49	S 10 E 37	N 50 E 25	S 05 E 45	S 20 E 76
15	N 14 W 32	S 01 W 70	S 31 E 27	S 43 E 37	S 26 W 49	S 54 E 17	N 41 E 31	S 10 W 48	S 23 E 29	N 21 E 24	S 05 E 42	S 20 E 58
20	N 25 W 34	S 02 W 44	S 70 E 15	S 20 E 25	S 20 E 19	S 70 E 26	N 53 E 22	S 13 E 43	N 14 E 18	N 25 W 19	S 05 E 41	S 20 E 38
	3 3⁵² a	**3** 7⁴⁶ a	**3** 11⁴⁵ a	**3** 3⁴⁵ p	**3** 7⁴⁵ p	**3** 11⁴⁹ p	**15** 3⁴⁷ a	**15** 7⁴⁴ a	**15** 11⁴⁵ a	**15** 3⁴⁸ p	**15** 7⁴⁵ p	**15** 11⁴⁸ p
2½	S 21 E 53	S 55 W 16	S 05 E 46	S 63 E 33	N 05 E 48	N 08 E 26	N 88 E 16	N 26 W 13	N 82 W 13	N 02 E 64	N 01 E 53	N 08 E 11
5	S 30 E 68	S 65 W 20	S 16 E 59	S 73 E 24	N 05 W 56	N 02 W 32	N 38 E 20	N 24 E 25	N 52 W 18	N 02 E 65	N 01 E 56	N 38 E 16
10	E 17	N 55 E 20	S 16 E 29	S 74 E 20	N 05 W 52	N 08 E 24	N 04 E 10	N 13 E 26	N 40 W 18	N 08 W 71	N 09 W 68	N 29 E 11
15	S 86 E 20	N 16 W 53	S 01 E 20	S 84 E 16	N 05 W 64	N 08 E 35	N 18 E 24	N 34 W 17	S 11 W 11	N 08 W 58	N 22 W 43	S 09 W 32
20	N 03 W 73	N 19 E 35	N 12 E 23	N 14 W 47	N 05 W 61	N 05 W 20	N 04 W 31	N 44 W 9	S 14 W 16	N 24 W 40	N 36 W 13	S 09 W 45

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende November 16—December 9 1912.

Meter	16 3⁵⁰ a	16 8¹⁵ a	16 11⁴⁸ a	16 3⁴⁵ p	16 7⁴⁵ p	16 11⁴⁵ p	28 3⁴⁸ a	28 7⁵⁰ a	28 11⁴⁴ a	28 3⁴⁰ p	28 7⁴⁷ p	28 11⁴⁶ p
2½	N 01 E 40	N 30	N 62 E 7	N 09 E 25	N 01 E 41	S 20 W 11	S 52 E 96	S 07 E 90	N 39 E 43	N 47 E 66	N 08 W 13	N 24 E 56
5	N 01 E 43	N 11 E 33	S 08 E 9	N 19 E 33	N 01 E 43	S 20 W 13	S 03 E 119	S 05 E 96	N 38 E 39	N 14 E 49	N 13 W 11	N 04 E 36
10	N 10 W 22	N 11 E 20	S 18 E 11	S 26 W 13	N 01 E 42	S 10 W 16	S 10 W121	S 02 W 88	N 02 E 21	N 12 E 50	N 04 E 13	N 10 E 45
15	S 30 W 17	S 21 E 10	S 08 E 34	S 19 W 15	N 24 W 30	S 10 W 33	S 09 W111	S 19 W 49	N 40 W 18	N 04 W 37	N 18 W 21	N 02 E 22
20	N 67 W 13	S 02 W 16	S 08 E 42	N 26 W 6	N 12 W 18	S 04 E 38	S 07 W 99	S 06 W 50	N 56 W 34	N 21 W 21	S 30 E 10	N 08 W 35
	17 3⁴⁴ a	**17** 7⁴⁵ a	**17** 11⁴⁴ a	**17** 3⁴⁵ p	**17** 7⁴⁸ p	**17** 11⁴⁸ p	**29** 3⁴⁶ a	**29** 7⁵⁰ a	**29** 11⁴⁸ a	**29** 3⁴⁰ p	**29** 7⁵⁰ p	**29** 11⁴⁶ p
2½	N 02 E 59	N 12 E 57	S 86 E 16	N 42 E 74	N 21 E 67	N 01 E 59	N 19 E 59	N 21 E 39	N 26 E 66	N 02 W121	N 13 W 88	N 09 E 67
5	N 08 W 54	N 23 E 70	N 86 W 16	N 32 E 46	N 32 E 93	N 01 E 67	N 09 E 71	N 04 E 31	N 33 E 62	N 08 E 123	N 04 E 101	N 09 E 70
10	N 34 W 20	N 23 E 58	S 84 W 25	S 47 W 21	N 09 E 72	S 08 E 63	N 02 W 77	N 34 W 25	N 15 E 37	N 13 E 130	N 05 E 94	N 09 E 73
15	N 69 W 13	N 03 W 47	S 43 W 31	S 34 W 32	N 35 W 13	S 07 E 65	N 04 E 48	N 38 W 18	N 08 W 24	N 08 W110	N 03 E 88	N 09 E 70
20	N 22 W 19	N 14 W 26	S 08 E 59	S 34 W 34	N 07 W 51	S 07 E 79	N 04 W 32	S 15 E 5	N 62 W 19	N 08 W 87	N 18 W 52	N 17 E 58
	18 3⁴⁸ a	**18** 7⁴³ a	**18** 11⁴⁸ a	**18** 3⁴⁵ p	**18** 7⁴⁵ p	**18** 11⁵⁰ p	**30** 3⁵⁰ a	**30** 7⁵² a	**30** 11⁴² a	**30** 3⁴⁸ p	**30** 7⁴⁵ p	**30** 11⁵⁰ p
2½	N 54 E 16	N 42 E 40	N 82 W 13	N 09 W 19	N 21 E 85	N 08 W 29	N 14 E 74	N 15 W 36	N 40 W 36	N 08 W 92	N 49 E 16	S 52 W 16
5	S 64 W 13	N 08 W 44	N 52 W 16	N 01 E 19	N 32 E 91	N 02 E 32	N 14 E 73	N 35 E 34	N 27 E 40	N 109	N 30 E 36	S 62 W 13
10	S 54 W 43	S 31 E 23	S 38 W 40	S 09 E 20	N 20 E 46	S 31 W 21	N 14 E 76	N 30 E 49	N 21 E 36	N 28 E 73	N 07 W 35	S 32 W 33
15	S 02 W 38	S 04 E 18	S 08 W 52	S 09 E 24	N 05 W 42	S 35 W 15	N 14 E 84	N 18 E 41	N 18 E 43	N 21 E 81	N 05 W 44	S 32 W 28
20	S 03 W 55	S 04 E 20	S 04 E 57	S 03 W 18	N 08 W 34	S 28 W 17	N 14 E 79	N 15 W 33	N 04 E 36	N 01 E 88	N 47	S 32 W 38
	19 3⁴⁵ a	**19** 7⁴⁵ a	**19** 11⁴⁵ a	**19** 3⁴⁸ p	**19** 8¹⁵ p	**19** 11⁴⁵ p	**1** 3⁴⁵ a	**1** 7⁵² a	**1** 11⁴⁴ a	**1** 3⁴⁹ p	**1** 7⁴⁴ p	**1** 11⁴⁶ p
2½	N 12 E 16	N 11 E 58	N 01 W 29	N 57 E 11	N 31 E 72	N 21 E 59	N 21 E 76	N 12 E 27	S 15 W 4	N 12 E 61	0	S 33 E 80
5	N 02 E 24	N 22 E 61	N 09 E 36	N 03 W 14	N 31 E 69	N 21 E 45	N 21 E 78	N 10 E 15	S 16 E 9	N 20 E 73	S 13	S 08 W 84
10	S 08 E 31	N 04 W 37	N 04 W 8	S 03 E 24	N 27 W 34	N 03 E 34	N 10 E 79	N 89 E 14	S 16 E 21	N 01 E 32	S 20 E 27	S 18 W 87
15	S 07 E 39	N 04 W 35	N 78 W 10	S 08 W 33	N 30 W 28	N 16 W 26	N 10 E 70	W 12	S 16 E 51	N 54 W 16	S 06 E 41	S 07 W 44
20	S 11 E 39	N 19 W 30	S 75 W 13	S 04 E 34	N 30 W 27	N 49 W 17	N 41 W 24	S 24	S 02 E 44	N 44 W 7	S 13 E 63	S 05 E 77
	20 3⁴⁵ a	**20** 7⁵⁴ a	**20** 12⁰⁰ m	**20** 3⁴⁸ p	**20** 7⁴⁸ p	**20** 11⁵⁰ p	**2** 3⁴⁶ a	**2** 7⁵³ a	**2** 11⁴⁴ a	**2** 3⁴⁷ p	**2** 7⁴⁵ p	**2** 11⁴⁴ p
2½	N 58 E 11	N 07 W 40	N 20 E 13	N 27 E 7	N 08 E 20	N 33 E 16	S 16 E 60			N 29 E 13	N 14 E 49	N 63 W 16
5	N 08 E 13	N 35 E 39	S 30 E 11	N 76 W 7	N 15 E 30	N 43 E 25	S 06 E 77	S 40 E 30	S 35 E 27	0	N 25 E 68	N 17 E 18
10	S 08 W 33	S 02 W 8	S 20 E 42	S 11 W 31	S 37 W 7	N 65 E 12	S 32 E 38	S 08 E 11	S 08 W 41	N 08 W 9	N 03 E 25	S 38 W 23
15	S 08 E 39	S 05 W 9	S 20 E 62	S 26 W 35	N 57 W 7	S 12	S 88 W 16	S 47 W 13	S 04 W 46	N 05 W 17	N 31 W 21	S 57 E 20
20	S 06 W 38	S 02 W 8	S 35 E 54	S 02 E 34	N 31 W 12	S 34 W 17	N 23 W 14	S 05 W 7	S 04 W 41	N 10 W 20	N 51 W 22	S 49 W 18
	21 3⁵¹ a	**21** 7⁵¹ a	**21** 11⁴⁶ a	**21** 3⁴² p	**21** 7⁴⁴ p	**21** 11⁴⁵ p	**3** 3⁴⁵ a	**3** 7⁴⁸ a	**3** 11⁴⁴ a	**3** 3⁴¹ p	**3** 7⁵⁰ p	**3** 11⁵⁰ p
2½	N 01 W 20	N 30 E 42		N 20 E 20	N 04 E 44	N 09 W 49	N 15 W 11	N 10 E 6	S 01 E 33	S 10 W 36	N 32 E 44	N 32 E 16
5	N 09 E 21	N 20 E 43	N 09 E 25	N 02 W 17	N 01 W 43	N 19 W 52	N 15 W 13	N 10 E 20	S 12 W 32	S 12 E 23	N 25 E 45	N 42 E 20
10	S 08 W 12	N 02 E 26	N 69 E 10	S 22 E 10	N 01 W 33	N 19 W 53	S 10 E 29	S 10 E 6	S 16 E 33	S 36 E 37	N 10 W 25	N 22 E 21
15	S 09 W 17	N 02 E 27	N 36 E 10	S 08 E 14	N 01 W 15	N 05 E 37	S 15 E 34	S 11 W 6	S 31	S 66 E 10	N 02 W 40	N 04 E 14
20	S 19 W 22	N 15 W 18	S 22 W 2	S 26 E 13	N 19 W 10	N 05 W 20	S 18 E 31	S 08 W 2	S 04 W 21	N 01 W 13	N 20 W 34	N 03 E 9
	22 3⁵⁰ a	**22** 7⁵³ a	**22** 11⁴⁹ a	**22** 3⁴² p	**22** 7⁵⁰ p	**22** 11⁵⁰ p	**4** 3⁵⁰ a	**4** 7⁵³ a	**4** 11⁴¹ a	**4** 3⁵⁴ p	**4** 7⁴⁵ p	**4** 11⁴⁵ p
2½	N 08 W 46	N 07 E 66	N 10 E 53	N 28 W 18	N 13 E 17	N 20 E 25	N 20 W 25	N 15 E 78	N 03 E 48	N 09 W 70	N 11 E 80	S 85 E 20
5	N 04 E 43	N 14 E 62	N 10 E 45	N 13 W 36	N 07 E 23	N 30 W 29	N 40 W 21	N 26 E 85	N 47 W 70	N 09 W 69	N 01 E 78	N 26 W 23
10	N 11 W 12	N 56 W 12	N 23 E 17	S 18 E 48	S 10 W 35	S 05 W 12	N 35 W 19	N 14 E 84	N 36 W 47	N 03 E 52	N 01 E 76	S 64 W 23
15	N 53 W 13	N 45 W 5	S 56 W 25	S 13 E 50	S 31	S 07 W 20	N 24 W 19	N 02 E 68	N 28 W 46	S 18 W 26	N 01 E 83	S 06 E 68
20	N 53 W 12	N 06 W 19	S 74 W 27	S 04 W 34	S 09 E 30	S 16 W 17	N 18 W 18	N 16 W 61	N 18 E 56	S 20 W 28	N 36 W 29	S 28 E 42
	23 3⁴⁶ a	**23** 7⁵⁴ a	**23** 11⁴⁰ a	**23** 3⁴² p	**23** 7⁵⁰ p	**23** 11⁴⁶ p	**5** 3⁴⁴ a	**5** 7⁴⁵ a	**5** 11⁴⁴ a	**5** 3⁵⁴ p	**5** 7⁵⁰ p	**5** 11⁴⁴ p
2½	N 15 E 16	N 06 W 13	N 25 E 30	N 07 E 7	N 25 E 25	N 11 E 57	S 25 E 48	N 26 W 11	S 27 W 16	S 78 E 20	N 32 E 40	N 22 E 18
5	N 05 E 13	N 56 W 8	N 01 W 13	S 42 E 14	N 15 E 15	N 11 E 42	S 15 W 63	N 04 E 20	N 77 E 20	S 28 E 36	N 32 E 32	N 21 E 63
10	S 16 E 33	S 14 W 25	S 70 W 5	S 13 W 25	S 63 W 14	N 23 E 37	S 15 W 78	S 64 E 11	S 12 E 25	S 08 E 41	N 01 E 36	N 10 E 38
15	S 08 W 35	S 01 W 12	S 85 W 5	S 14 W 31	S 63 W 14	N 22 E 30	S 15 W 85	S 25 E 21	S 24	S 08 E 47	N 26	N 05 W 21
20	S 03 E 33	S 10 W 20	S 60 W 6	S 18 W 33	S 69 W 11	N 36 E 27	S 04 W 81	S 01 W 25	S 11 W 20	S 04 W 53	N 11 W 26	N 36 W 19
	24 3⁵⁰ a	**24** 7⁵⁴ a	**24** 12⁰⁰ m	**24** 3⁴⁰ p	**24** 7⁴⁶ p	**24** 11⁴⁵ p	**6** 3⁴⁵ a	**6** 7⁵¹ a	**6** 11⁵⁰ a	**6** 3⁴⁵ p	**6** 7⁵⁰ p	**6** 11⁴⁷ p
2½	N 01 E 16	N 14 E 33	N 26 E 94	N 33 E 16	N 65 E 44	N 24 E 30	N 30 E 32	N 10 E 71	N 21 E 76	N 09 W 23	N 09 W 66	N 12 E 44
5	N 19 W 13	N 29 E 24	N 11 E 83	N 30 E 16	N 16 E 7	N 40 E 32	N 30 E 28	N 10 E 93	N 21 E 86	N 09 W 36	N 23 E 67	N 08 W 53
10	S 44 W 16	S 20 W 27	N 09 W 30	S 17 E 40	S 14 W 44	S 04 W 18	N 40 E 10	N 21 E 85	N 10 E 85	N 26 E 19	N 34 E 56	N 03 E 48
15	S 24 W 13	S 07 W 19	N 51 W 24	S 06 E 45	S 06 W 37	S 16 W 17	S 56	N 20 W 55	N 30 W 61	S 16 E 18	N 10 E 30	N 03 E 33
20	S 26 W 16	S 20 E 21	N 71 W 17	S 11 W 40	S 43 W 31	S 49 W 17	S 11 E 30	N 20 W 48	N 30 W 34	S 08 E 27	N 17 W 14	N 10 W 24
	25 3⁴⁸ a	**25** 7⁵¹ a	**25** 11⁴³ a	**25** 3⁴⁴ p	**25** 7⁴⁴ p	**25** 11⁴⁶ p	**7** 3⁴⁸ a	**7** 7⁵⁰ a	**7** 11⁵⁰ a	**7** 3⁴⁸ p	**7** 7⁴⁵ p	**7** 11⁴⁸ p
2½	S 36 E 13	N 05 E 16	N 52 E 42	N 40 E 20	N 57 E 50	N 02 E 53	N 19 W 11	N 20 E 40	N 21 E 49	S 51 W 13	N 41 E 20	N 08 W 33
5	S 21 E 25	N 03 W 16	S 04 W 12	S 37 E 20	N 39 E 56	N 02 E 45	N 29 W 7	N 10 E 49	N 01 E 41	S 71 W 16	N 20 W 16	N 08 W 37
10	S 10 W 53	S 10 W 23	S 68 W 22	S 03 E 74	S 29 W 34	N 09 W 44	S 01 W 16	N 10 E 53	N 10 W 60	S 10 W 21	S 11 W 16	N 08 W 16
15	S 16 E 57	S 04 E 20	S 31 W 25	S 09 W 75	S 39 W 32	N 06 W 36	S 09 E 46	S 05 E 20	N 03 E 19	S 10 E 32	S 11 W 29	N 40 W 7
20	S 16 E 67	S 02 W 15	S 04 W 19	S 03 W 83	S 30 W 30	N 06 E 31	S 09 E 56	S 01 E 21	N 39 E 14	S 10 E 42	S 28	N 25 W 7
	26 3⁵⁰ a	**26** 7⁵⁶ a	**26** 11⁴² a	**26** 3⁴⁵ p	**26** 7⁵¹ p	**26** 11⁵⁰ p	**8** 3⁵⁰ a	**8** 7⁵⁰ a	**8** 11⁵⁰ a	**8** 3⁴⁵ p	**8** 7⁵⁰ p	**8** 11⁴⁸ p
2½	S 23 E 55		N 39 E 89	N 50 E 30	N 102	N 09 W124	N 86 W 11	N 09 W 25	N 08 W 55	N 12 E 20	N 01 E 25	N 11 E 51
5	S 02 E 47	S 01 E 52	N 30 E 72	N 08 W 18	N 97	N 09 W110	N 86 W 16	N 09 W 31	N 08 W 50	N 08 W 18	N 09 W 25	N 11 E 63
10	S 29 W 68	S 01 E 50	N 16 W 49	S 18 W 2	N 64	N 09 W115	S 45 W 10	S 44 W 17	N 08 W 48	S 40 W 17	S 09 E 22	N 10 W 50
15	S 28 W 76	S 08 E 44	N 27 W 34	S 11 E 9	N 48	N 09 W 77	S 17 E 21	S 07 W 15	N 04 E 45	S 08 E 16	S 01 W 29	N 14 W 20
20	S 17 W 77	S 18 E 25	N 12 E 23	S 25 W 17	N 26	N 09 W 64	S 17 E 19	S 15 W 12	N 08 W 31	S 08 E 13	S 01 W 29	N 01 E 16
	27 3⁴⁶ a	**27** 7⁵⁴ a	**27** 11⁴² a	**27** 3⁴² p	**27** 7⁴⁹ p	**27** 11⁴⁸ p	**9** 3⁴⁵ a	**9** 7⁴⁸ a	**9** 11⁴⁵ a	**9** 3⁴⁵ p	**9** 7⁵⁰ p	**9** 11⁴⁶ p
2½	N 10 W 96	N 01 W 69	N 05 W 86	N 08 W 71	N 04 E 53	N 14 E 53	N 08 W 25	N 15 E 16	N 02 E 55	N 16 W 11	S 35 W 13	N 11 E 56
5	N 33 W100	N 02 W 78	N 07 W 85	N 15 E 68	N 08 W 75	N 04 E 58	N 08 W 21	N 15 E 20	N 02 E 63	N 16 W 11	S 35 W 16	N 01 E 55
10	N 16 W 98	N 10 W 61	N 10 E 64	N 21 E 55	N 04 W 70	N 16 E 29	N 30 W 10	S 15 W 12	N 08 W 45	N 57 W 8	S 15 W 40	N 20 W 56
15	N 35 W 97	S 30 W 37	N 09 E 72	N 02 E 44	N 54 E 36	S 22 E 30	S 18 E 17	S 05 W 23	N 10 W 26	S 26 E 13	S 15 W 42	N 14 W 6
20	N 26 E 67	S 26 W 42	N 20 W 38	S 04 W 59	N 82 W 18	S 08 W 44	S 03 W 19	S 05 W 23	N 13 W 16	S 26 E 16	S 18 E 37	N 36 W 9

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende December 10 1912—January 2 1913.

Meter	10 3^{45} a	10 7^{50} a	10 11^{48} a	10 3^{45} p	10 7^{45} p	10 11^{48} p	22 3^{46} a	22 7^{45} a	22 11^{48} a	22 3^{55} p	22 7^{45} p	22 11^{48} p
2½	N 30 W 21	N 11 E 16	N 11 E 89	N 02 E 13	S 03 E 13	S 58 E 23	N 14 E 16	N 37 E 25	N 35 E 34	S 52 E 25	N 46 W 9	N 24 E 16
5	N 30 W 15	N 09 W 20	N 22 E 87	N 02 E 18	S 07 W 16	N 42 E 29	S 26 E 21	N 16 W 16	N 35 E 32	S 30 W 31	S 64 W 3	N 14 E 20
10	N 40 W 12	S 09 E 14	N 22 E 78	N 15 E 10	S 17 W 50	N 23 E 28	S 15	N 16 E 39	N 15 E 33	S 13 E 39	S 18 E 11	N 11 E 15
15	S 21 E 17	S 18	N 14 W 25	S 20 W 9	S 06 W 54	S 32 E 25	S 15 W 24	S 38 E 21	N 05 W 12	S 08 W 51	S 15 W 20	N 29 W 15
20	S 07 W 14	S 01 W 21	N 10 W 30	S 20 W 14	S 06 W 56	N 71 E 14	S 07 E 30	S 16 W 18	N 05 W 12	S 09 W 53	S 14 W 18	S 83 W 11
	11 3^{48} a	**11** 7^{50} a	**11** 11^{45} a	**11** 3^{45} p	**11** 7^{48} p	**11** 11^{48} p	**23** 3^{45} a	**23** 7^{45} a	**23** 11^{45} a	**23** 3^{48} p	**23** 7^{48} p	**23** 11^{45} p
2½	S 11 E 24	S 40 E 14	N 20 W 46	N 43	N 11 W 32	N 05 E 176	S 20 W 7	N 24 E 39	N 44 E 59	N 15 E 16	N 19 W 33	N 31 E 70
5	S 09 W 7	S 20 E 20	N 10 W 52	N 11 E 48	N 10 E 22	N 07 W164	S 10 W 11	N 14 E 33	N 35 E 69	N 15 E 25	N 19 W 31	N 42 E 79
10	S 01 E 10	N 30 E 24	N 10 W 57	N 37	S 20 E 33	N 07 W140	S 05 W 19	N 67 W 18	N 24 E 56	N 05 E 28	N 14 E 24	N 31 E 76
15	S 21 W 10	N 20 E 22	N 03 E 45	N 01 W 16	S 31 E 27	N 70 E 56	S 06 E 18	N 56 W 9	N 10 E 35	S 22 E 12	S 18 W 12	N 07 E 62
20	S 16 W 18	N 12 W 18	N 22 W 36	N 03 W 8	S 20 W 29	S 10 W 66	S 06 W 14	N 80 W 10	N 20 W 19	S 39 W 10	N 80 W 1	N 04 E 38
	12 3^{55} a	**12** 7^{50} a	**12** 11^{45} a	**12** 3^{55} p	**12** 7^{48} p	**12** 11^{50} p	**24** 3^{45} a	**24** 7^{50} a	**24** 11^{54} a	**24** 3^{45} p	**24** 7^{44} p	**24** 11^{45} p
2½	N 01 W124	N 09 E 67	N 10 E 76	N 09 W 48	N 81 E 25	S 01 E 48	N 12 E 19	N 08 W 25	N 22 E 53	S 04 W 7	S 11 W 11	N 11 E 71
5	N 10 E 138	N 20 E 75	N 10 E 65	N 09 W 41	S 08 E 33	S 01 E 52	N 59 W 16	N 29 W 25	N 22 E 58	S 04 W 7	S 11 W 13	N 23 E 65
10	N 10 E 131	N 09 E 71	N 10 E 64	N 09 W 40	S 09 E 39	S 01 E 29	S 57 W 9	S 01 E 17	N 43	S 35 W 19	S 01 W 34	N 22 E 73
15	N 10 E 126	N 14 W 61	N 03 W 52	S 01 E 27	S 01 W 55	S 14 E 34	S 20	S 09 E 26	N 15 W 28	S 07 E 32	S 10 E 38	N 7 W 40
20	N 10 E 96	N 05 W 49	S 15 W 46	S 51	S 09 E 64	S 33 W 28	S 09 E 24	S 13 E 16	S 50 W 7	S 07 E 40	S 09 E 37	N 07 W 39
	13 3^{45} a	**13** 7^{45} a	**13** 11^{45} a	**13** 3^{45} p	**13** 7^{50} p	**13** 11^{48} p	**25** 3^{48} a	**25** 7^{45} a	**25** 11^{45} a	**25** 3^{45} p	**25** 7^{45} p	**25** 11^{48} p
2½	S 64 W 13	N 11 E 16	N 40 E 46	N 42 E 20	N 71 E 16	N 04 E 25	N 11 E 30	N 19 W 33	N 09 E 85	S 11 E 16	S 36 E 71	N 27 E 16
5	S 54 W 16	N 41 E 49	N 20 E 59	N 42 E 25	S 01 W 21	N 16 E 15	N 11 E 21	N 50 W 15	N 09 E 92	S 11 E 25	S 15 E 73	N 17 E 13
10	S 22 W 18	S 14 E 34	N 20 E 61	N 33 E 28	S 01 W 46	S 26 E 29	S 02 W 38	S 03 W 33	N 09 E 89	S 11 E 28	S 15 E 68	S 26 W 11
15	S 03 W 21	S 14 E 29	N 20 E 55	N 20 E 16	S 01 W 75	S 36 E 33	S 19 E 33	S 16 E 53	N 04 E 75	S 11 E 31	S 31 E 72	S 14 E 18
20	S 24 W 12	S 06 W 29	N 16 W 47	N 46 W 19	S 01 W 66	S 27 W 29	S 09 E 36	S 16 W 57	N 11 W 64	S 11 E 45	S 74 E 19	S 03 E 15
	14 3^{52} a	**14** 7^{50} a	**14** 11^{48} a	**14** 3^{50} p	**14** 7^{50} p	**14** 11^{48} p	**26** 3^{45} a	**26** 7^{45} a	**26** 11^{45} a	**26** 3^{45} p	**26** 7^{50} p	**26** 11^{45} p
2½	N 12 E 48	S 71 W 34	N 69 E 50	S 46 E 67	S 22 E 124	S 56 E 44	S 65 E 16	S 03 E 48	N 33 W 11	S 08 E 59	S 38 W 11	N 01 E 76
5	N 02 E 41	S 19 E 58	S 70 E 58	S 36 E 84	S 138	S 05 W 41	S 25 E 33	S 08 W 66	N 53 W 13	S 24 W 22	N 52 W 19	N 01 E 83
10	N 33 W 21	S 09 E 78	S 70 E 56	S 24 E 72	S 131	S 05 W 40	S 05 E 43	S 15 E 65	N 53 W 16	S 24 W 22	S 53 W 11	N 01 E 75
15	N 10 W 20	S 13 W 80	S 37 E 45	S 14 E 84	S 98	S 28 E 48	S 05 E 51	S 03 E 53	N 53 W 15	S 22 E 20	S 13 W 11	N 10 W 61
20	N 21 W 17	S 66 E 81	S 55 W 52	S 02 E 81	S 24 W113	S 17 W 49	S 05 E 57	S 03 E 43	N 41 W 10	N 84 W 18	N 50 W 10	N 11 W 44
	15 3^{48} a	**15** 7^{45} a	**15** 11^{45} a	**15** 3^{43} p	**15** 7^{52} p	**15** 11^{48} p	**27** 3^{45} a	**27** 7^{45} a	**27** 11^{50} a	**27** 3^{50} p	**27** 7^{49} p	**27** 11^{45} p
2½	S 20 E 42	N 49 E 16	S 46 E 55	S 31 E 33	S 33 E 48	S 18 E 25	N 14 E 33	S 21 W 33	N 21 E 46	N 09 W 53	N 41 E 20	N 01 E 64
5	S 10 W 48	S 41 E 25	S 25 E 58	S 31 E 39	S 18 W 67	S 08 E 25	N 04 E 32	S 10 W 39	N 21 E 32	N 01 E 58	N 32 E 25	N 13 E 69
10	S 10 W 58	S 30 E 32	S 16 W 57	S 23 W 28	S 08 W 82	S 04 W 32	N 04 E 27	S 10 E 52	S 37 W 16	N 10 W 44	N 21 W 24	N 13 E 67
15	S 01 E 56	S 20 E 31	S 05 W 77	S 13 W 23	S 18 W 71	S 03 W 23	N 26 W 20	S 10 E 56	N 11 W 23	N 10 W 34	N 21 W 26	N 46
20	S 01 E 43	S 09 E 31	S 05 W 74	S 22	S 06 W 63	S 03 W 20	N 73 W 19	S 10 E 53	N 23	N 10 W 28	N 34 W 16	N 02 W 33
	16 3^{50} a	**16** 7^{18} a	**16** 11^{48} a	**16** 3^{45} p	**16** 7^{50} p	**16** 11^{50} p	**28** 3^{45} a	**28** 7^{52} a	**28** 11^{45} a	**28** 3^{50} p	**28** 7^{50} p	**28** 11^{50} p
2½	N 55 E 18	N 61 E 21	N 62 W 11	N 58 E 18	S 56 E 33	S 48 E 70	N 11 E 87	N 09 E 70	N 44 E 176	N 10 W 92	S 08 W 58	S 23 E 58
5	N 55 E 18	N 61 E 18	N 52 W 16	N 28 E 33	S 16 E 33	S 24 W 80	N 01 E 91	N 69	N 44 E 175	N 10 W 86	S 08 W 66	S 08 W 74
10	N 40 E 24	N 72 E 24	N 40 W 16	N 19 E 32	S 04 E 31	S 23 W 80	N 66	N 09 E 55	N 44 E 149	N 10 W 83	S 08 W 73	S 08 W 64
15	N 37 W 21	N 73 E 31	N 41 W 18	N 41 W 19	S 05 E 31	S 23 W 77	N 51	N 20 W 22	N 44 E 109	N 10 W 81	S 08 W 85	S 04 E 57
20	N 36 W 20	N 23 W 40	N 52 W 15	N 10 E 26	S 06 W 37	S 23 W 70	N 39	N 38 E 31	N 44 E 97	N 10 W 78	S 08 W 76	S 24 W 45
	17 3^{45} a	**17** 7^{48} a	**17** 11^{45} a	**17** 3^{48} p	**17** 7^{50} p	**17** 11^{45} p	**29** 3^{45} a	**29** 7^{45} a	**29** 11^{45} a	**29** 3^{45} p	**29** 7^{50} p	**29** 11^{46} p
2½	S 38 W 21	N 45 E 30	N 37 E 16	N 44 E 16	N 05 E 25	S 86 E 16	N 65 E 21	S 48 E 33	S 54 W 7	N 01 W 53	N 24 E 91	N 38 E 25
5	S 04 E 25	N 76 E 27	N 03 W 25	N 14 E 21	N 05 E 33	N 84 E 25	N 76 E 10	S 17 E 33	S 26 E 11	N 20 E 58	N 24 E 46	S 52 E 40
10	S 14 E 20	S 25 W 10	S 13 E 33	N 36 E 29	N 16 E 31	S 65 W 22	S 10 E 11	S 15 W 32	S 36 E 21	N 09 E 56	N 39 E 18	S 62 E 36
15	S 14 E 28	S 57 W 16	S 04 E 13	N 81 W 21	N 35 W 10	S 55 W 25	S 01 E 13	S 08 E 34	S 36 E 32	N 17 W 44	S 57 W 22	S 02 W 38
20	S 43 W 23	S 75 W 20	S 29 W 28	S 85 W 16	N 87 W 29	S 45 W 28	S 10 E 10	S 03 W 37	S 14 E 28	N 17 W 15	S 85 W 38	S 02 E 19
	18 3^{46} a	**18** 7^{50} a	**18** 11^{45} a	**18** 3^{50} p	**18** 7^{48} p	**18** 11^{44} p	**30** 3^{48} a	**30** 7^{45} a	**30** 11^{48} a	**30** 3^{45} p	**30** 7^{48} p	**30** 11^{48} p
2½	N 09 W 30	N 12 E 96	N 57 E 33	S 59 E 25	N 22 E 37	N 34 E 23	N 38 E 16	N 22 W 11	S 49 E 19	N 84 E 19	S 22 E 48	S 13 E 64
5	N 19 W 25	N 11 W 74	N 47 E 15	S 39 E 33	N 22 E 24	N 54 E 36	N 02 W 13	N 12 W 14	S 39 E 24	N 33 E 14	S 09 W 70	S 02 E 75
10	N 49 E 15	N 10 W 87	N 37 W 16	S 07 E 20	N 22 E 38	N 54 E 22	N 53 W 20	N 22 W 19	S 18 E 26	N 60 W 11	S 02 E 77	S 02 E 64
15	N 21 W 14	N 09 W 73	S 06 W 26	S 09 E 23	N 04 W 26	S 64 W 30	S 16 W 26	S 16 W 20	S 18 E 33	N 70 W 13	S 14 E 74	S 16 E 55
20	N 05 E 14	N 10 W 45	S 55 W 18	S 03 W 23	N 48 W 16	S 54 W 24	S 36 W 19	S 14 E 24	S 08 E 42	N 17 W 14	S 14 E 59	S 16 W 38
	19 3^{48} a	**19** 7^{45} a	**19** 11^{45} a	**19** 3^{55} p	**19** 7^{45} p	**19** 11^{45} p	**31** 3^{48} a	**31** 7^{45} a	**31** 11^{50} a	**31** 3^{44} p	**31** 7^{50} p	**31** 11^{45} p
2½	S 29 E 16	S 19 W 53	S 01 E 81	S 86 W 13	N 19 E 71	N 11 E 80	N 08 E 19	S 75 W 11	S 15 W 25	N 34 E 41	N 24 E 67	N 27 E 25
5	S 29 E 16	S 19 W 84	S 01 E 88	S 84 E 16	N 19 E 66	N 11 E 68	N 29 E 19	N 45 W 9	S 26 W 16	N 03 E 58	N 24 E 59	N 27 E 33
10	S 11 W 16	S 09 W 76	S 01 E 88	S 64 E 21	N 08 E 64	N 23 E 66	N 06 E 10	N 16 W 9	S 26 W 19	N 62 W 47	N 03 E 64	S 18 W 18
15	S 02 W 25	S 09 W 73	S 10 W 85	S 64 E 22	N 04 W 57	N 11 E 64	N 05 W 10	N 16 E 14	S 16 E 22	N 12 E 29	N 02 E 54	S 18 W 34
20	S 02 W 28	S 08 E 37	S 02 E 81	S 34 W 16	N 05 W 46	N 06 E 51	N 16 W 13	N 47 W 10	S 16 E 28	N 10 E 32	N 10 W 52	S 08 W 46
	20 3^{48} a	**20** 7^{55} a	**20** 11^{55} a	**20** 3^{52} p	**20** 7^{45} p	**20** 11^{48} p	**1** 3^{45} a	**1** 7^{45} a	**1** 11^{50} a	**1** 3^{44} p	**1** 7^{45} p	**1** 11^{45} p
2½	N 82 W 11	N 27 E 25	S 73 E 25	N 11 E 16	N 57 E 25	S 76 E 33	N 05 W 19	N 24 E 40	S 41 E 13	N 34 E 25	N 14 E 53	N 22 E 24
5	S 22 E 29	N 70 E 16	S 63 E 25	S 09 E 36	N 54 W 16	N 76 W 17	N 87 E 16	N 36 E 24	S 21 E 25	N 44 E 21	N 14 E 58	N 20 W 19
10	S 22 E 30	S 81 E 25	N 70 W 26	S 01 W 48	N 54 W 16	N 84 W 20	S 44 E 30	N 32 W 19	S 10 E 32	S 70 E 15	N 04 E 57	N 45 W 8
15	S 21 W 24	N 46 W 25	S 10 E 21	S 01 W 44	N 53 W 20	N 79 W 16	S 23 E 23	N 36 W 14	S 10 E 45	S 44 W 17	N 04 E 47	S 26 E 17
20	S 55 W 12	S 76 E 16	S 10 E 28	S 13 W 36	N 52 W 21	S 69 W 21	S 10 E 17	S 62 W 15	S 11 E 46	S 64 W 17	N 13 W 6	S 18 E 19
	21 3^{45} a	**21** 7^{48} a	**21** 11^{45} a	**21** 3^{48} p	**21** 7^{45} p	**21** 11^{44} p	**2** 3^{44} a	**2** 7^{45} a	**2** 11^{45} a	**2** 3^{45} p	**2** 7^{50} p	**2** 11^{45} p
2½	S 03 E 18	N 04 E 44	N 36 E 33	S 15 W 13	N 34 E 56	N 24 E 53	N 12 E 33	N 57 E 40	S 55 W 9	N 89 E 11	N 57 E 18	N 04 E 21
5	S 03 E 16	N 04 E 46	N 27 E 32	S 25 W 13	N 03 E 42	N 24 E 45	N 03 E 44	N 38 E 43	S 05 E 16	S 41 E 19	N 28 E 18	N 04 E 20
10	S 03 E 15	N 04 E 50	N 07 W 24	S 15 W 16	N 23 W 22	N 02 E 42	N 39 E 7	N 16 E 38	S 16 E 21	S 10 E 23	N 37 W 13	N 10 E 17
15	S 20 W 21	N 04 E 56	N 29 W 24	S 06 E 15	N 15 E 25	N 02 E 33	S 02 W 35	N 17 W 17	S 05 E 33	S 31 E 33	N 36 W 15	N 10 E 17
20	S 09 W 17	N 04 E 40	N 40 W 23	S 39 W 12	N 24 W 15	N 40 W 24	S 07 E 31	N 60 W 14	S 16 W 43	S 31 E 42	N 02 W 21	N 03 W 16

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende January 3—26 1913.

Meter	3 3^{48} a	3 7^{45} a	3 11^{50} a	3 3^{45} p	3 7^{48} p	3 11^{44} p	15 3^{50} a	15 7^{50} a	15 11^{46} a	15 3^{49} p	15 7^{46} p	15 11^{45} p
$2\frac{1}{2}$	S 87 W 11	N 19 W 59	N 02 E 33	S 32 W 11	N 11 E 85	N 10 W 96	N 05 E 166	N 16 W 96	N 22 W136	N 16 W166	N 01 W176	N 16 W 96
5	S 77 W 13	N 02 E 69	N 23 E 37	S 32 W 16	N 22 E 118	N 01 E 115	N 10 E 163	N 05 W132	N 10 W108	N 08 E 164	N 11 E 165	N 01 W126
10	S 37 W 25	N 45 W 33	N 23 E 31	S 08 E 29	N 01 W 60	N 01 E 146	N 10 E 73	N 05 W110	N 10 W102	N 09 E 111	N 13 E 100	N 16 E 114
15	S 27 W 30	N 26 E 18	N 11 E 26	S 29 E 38	N 26 E 84	N 01 E 89	N 10 E 61	N 31 E 63	N 38 E 71	N 40 E 88	N 14 E 60	N 17 E 76
20	S 16 W 27	N 04 E 32	N 40 W 19	S 17 E 40	N 70	N 01 E 58	N 10 E 52	N 16 E 80	N 32 E 64	N 40 E 72	N 18 E 43	S 27 E 36
	4 3^{50} a	4 7^{45} a	4 11^{45} a	4 3^{45} p	4 7^{48} p	4 11^{45} p	16 3^{50} a	16 7^{48} a	16 11^{50} a	16 3^{45} p	16 7^{44} p	16 11^{45} p
$2\frac{1}{2}$	N 58	N 124	N 10 W 71	N 11 E 25	N 10 W 67	N 11 E 48	N 06 W151	N 16 W176	N 27 W 74	N 01 W 96	N 11 W 85	N 08 E 58
5	N 31 E 66	N 110	N 12 E 114	N 43 E 33	N 20 W 63	N 11 E 63	N 06 W157	N 04 W165	N 06 W 85	N 06 E 86	N 10 E 90	N 08 E 58
10	N 10 W 28	N 115	N 04 W 95	S 14 W 20	N 10 W 73	N 11 E 56	N 22 E 102	N 04 W128	N 30 E 64	N 36 E 53	N 16 E 89	S 08 W 39
15	S 16 E 40	N 64 E 72	N 21 W 91	S 21 W 34	N 07 W 40	N 30 E 14	N 21 E 154	N 64 E 94	N 46 E 46	N 14 E 71	N 16 E 65	S 08 W 38
20	N 82 W 36	N 46 E 77	N 05 E 91	S 42 W 53	N 07 E 45	S 19 W 43	N 63 E 38	N 24 E 58	N 48 W 41	S 18 W 40	N 03 W 34	S 19 E 42
	5 3^{45} a	5 7^{45} a	5 11^{48} a	5 3^{48} p	5 7^{50} p	5 11^{45} p	17 3^{44} a	17 7^{48} a	17 11^{56} a	17 3^{49} p	17 7^{42} p	17 11^{50} p
$2\frac{1}{2}$	N 30 W 16	N 11 E 46	N 01 E 53	N 11 E 19	N 21 E 74	N 01 E 74	N 16 W 60	N 05 W 76	N 25 W 57	N 01 W 60	N 16 W 70	N 07 E 23
5	N 30 E 33	N 32 E 52	N 32 E 58	N 31 E 44	N 10 E 65	N 23 E 51	N 70	N 16 E 79	N 06 E 60	N 22 E 47	N 09 E 87	N 42 E 32
10	S 01 W 33	N 54 E 11	N 43 E 78	S 55 E 34	N 34 E 55	N 22 E 64	N 34	N 28 E 77	S 44 W 15	S 17 W 42	N 27 E 56	N 23 E 35
15	S 10 E 53	S 06 W 29	S 08 E 28	S 16 E 45	N 01 E 22	N 04 W 45	S 46	N 30 E 50	S 05 W 27	S 17 W 40	N 09 E 9	S 34 E 24
20	S 10 E 57	S 13 W 49	S 08 W 42	S 80	S 48 W 42	N 08 W 34	N 13 W 32	N 37 E 26	S 04 W 44	S 07 W 35	N 26 W 10	S 04 W 30
	6 3^{48} a	6 7^{45} a	6 11^{45} a	6 3^{50} p	6 7^{50} p	6 11^{46} p	18 3^{48} a	18 7^{44} a	18 11^{41} a	18 3^{43} p	18 7^{48} p	18 11^{48} p
$2\frac{1}{2}$	N 10 W 58	N 01 E 46	N 09 W 70	S 22 W 16	N 02 E 44	N 08 W 53	N 36 W 40	N 37 W 72	N 25 W 20	S 65 E 11	N 17 E 44	N 47 E 34
5	N 30 W 54	N 20 W 52	N 11 E 79	S 02 W 18	N 02 E 35	N 08 W 45	N 15 W 46	N 11 E 82	N 30 W 31	S 31 W 8	N 02 W 41	N 27 E 43
10	N 30 W 46	N 74 W 35	N 11 E 87	S 08 E 33	N 16 E 12	N 04 E 42	S 26 E 28	N 21 E 68	N 37 E 21	S 21 E 48	N 16 E 46	N 17 E 47
15	S 22 E 41	S 09 E 62	S 33 W 8	S 18 E 45	S 15 E 28	N 24 W 20	S 38 W 22	S 02 W 14	S 25 E 15	S 39 E 48	N 03 E 31	N 29 E 29
20	S 16 E 35	S 09 E 56	S 48 W 14	S 08 E 53	S 04 W 21	N 79 W 14	S 24 W 17	N 24 E 4	S 32 E 19	S 32 E 17	N 12 W 24	N 44 E 32
	7 3^{45} a	7 7^{55} a	7 11^{48} a	7 3^{45} p	7 7^{40} p	7 11^{45} p	19 3^{50} a	19 7^{48} a	19 11^{44} a	19 3^{44} p	19 7^{50} p	19 11^{45} p
$2\frac{1}{2}$	N 12 E 16	N 32 E 37	N 09 W 76	N 01 E 30	N 19 W 46	N 11 E 81	N 28 E 16	N 09 E 53	N 20 W 55	0	N 03 W 67	N 03 W 85
5	N 02 E 13	N 54 E 36	N 02 E 71	N 11 E 30	N 01 E 52	N 01 W 83	S 22 E 18	N 04 E 62	N 11 E 50	S 72 E 11	N 02 E 61	N 08 E 85
10	N 01 W 16	S 50 W 19	N 10 W 76	N 10 W 38	N 16 E 21	N 11 E 83	S 10 E 20	N 04 E 58	N 14 E 29	S 21 W 9	N 13 E 54	N 08 E 73
15	S 01 E 21	S 76 W 18	N 10 W 60	N 13 E 37	S 10 W 37	N 08 W 68	S 09 W 21	N 05 W 25	N 83 W 14	S 11 E 17	N 08 E 47	N 02 E 64
20	S 11 E 27	S 86 W 17	N 10 W 48	N 20 E 9	S 30	N 32 W 40	S 20 W 14	N 09 W 22	N 35 W 6	S 12 E 20	N 10 W 26	N 01 W 27
	8 3^{45} a	8 7^{45} a	8 11^{45} a	8 3^{45} p	8 7^{45} p	8 11^{45} p	20 3^{50} a	20 7^{48} a	20 11^{54} a	20 3^{45} p	20 7^{50} p	20 11^{48} p
$2\frac{1}{2}$	N 11 E 36	N 09 W 25	N 30 E 76	N 43	N 30 E 25	N 10 W 85	N 32 W 55	N 01 W 86	N 03 W 90	N 47 W 70	N 47 W 96	N 17 W141
5	N 11 E 53	N 09 W 36	N 42 E 79	N 21 E 45	N 10 E 59	N 32 E 93	N 09 E 58	N 01 E 95	N 19 E 100	N 02 E 88	N 08 E 130	N 04 W135
10	N 11 E 57	N 09 W 36	N 30 E 80	N 01 W 44	N 02 W 37	N 08 E 104	N 16 E 16	N 08 W 63	N 15 E 73	N 80 E 31	N 02 W110	N 11 E 130
15	S 50 W 6	S 07 W 22	N 43 E 70	N 01 W 43	S 10 W 37	N 06 E 63	S 10 E 21	N 06 W 68	N 15 E 61	N 12 E 35	N 20 E 88	N 11 E 96
20	S 14 W 31	S 27 E 28	N 29 E 62	N 55 E 13	S 01 W 43	N 16 W 76	S 06 W 35	N 16 W 26	N 06 E 57	S 46	N 02 W 76	N 54 W 51
	9 3^{47} a	9 7^{45} a	9 11^{45} a	9 3^{48} p	9 7^{45} p	9 11^{48} p	21 3^{45} a	21 7^{46} a	21 11^{45} a	21 3^{45} p	21 7^{48} p	21 11^{45} p
$2\frac{1}{2}$	N 01 W 53	N 31 W 53	N 11 W 76	N 21 W 40	N 56 W 16	N 06 W 55	N 23 W 76	N 47 W102	N 27 W 96	N 50 W 71	N 37 W102	N 33 W124
5	N 10 E 84	N 20 E 58	N 10 E 83	N 20 E 45	N 16 W 29	N 04 E 59	N 02 W 83	N 08 E 130	N 01 E 134	N 01 E 93	N 08 E 122	N 02 E 140
10	N 06 W 70	N 20 E 57	N 13 W 72	N 20 E 57	N 04 E 24	N 16 E 57	N 09 E 86	N 06 E 131	N 12 E 75	N 10 E 79	N 08 E 100	N 05 E 73
15	N 18 W 75	N 09 E 49	N 13 W 69	N 09 E 52	S 05 E 27	N 07 W 24	N 23 E 59	N 06 E 110	N 19 E 96	N 34 E 59	N 15 E 110	N 92
20	N 05 W 70	S 05 W 27	N 13 W 66	S 27	S 26 E 33	N 05 W 28	S 62 W 18	N 22 E 106	N 33 E 72	N 15 E 61	N 52	N 74
	10 3^{46} a	10 7^{45} a	10 11^{44} a	10 3^{45} p	10 7^{50} p	10 11^{47} p	22 3^{50} a	22 7^{44} a	22 11^{50} a	22 3^{48} p	22 7^{47} p	22 11^{48} p
$2\frac{1}{2}$	N 22 W 57	N 15 W 40	N 22 W 85	N 42 W 76	N 25 W 48	N 32 W 76	N 38 W 59	N 31 W 36	N 23 W 67	N 25 E 13	0	N 42 W 39
5	N 09 E 58	N 15 W 56	N 02 W 92	N 09 E 84	N 04 W 66	N 10 E 93	N 28 W 79	N 74	N 04 E 78	S 84 E 16	N 20 E 4	N 29 E 53
10	N 20 E 55	N 08 E 58	N 02 W 91	N 09 E 87	N 04 W 49	N 10 E 115	N 04 E 73	N 05 E 79	N 14 E 89	S 19 E 25	S 35 E 26	N 13 E 49
15	N 08 E 30	S 08 W 29	N 30 E 87	N 09 E 85	N 11 E 40	N 07 W108	N 14 E 23	N 18 E 42	N 20 E 63	S 21 W 59	S 04 E 34	N 01 E 28
20	N 09 E 18	S 18 W 21	N 19 E 60	N 09 E 78	S 11 E 46	N 08 E 96	N 61 E 18	S 02 W 19	N 15 E 39	S 05 W 57	S 54 E 19	N 35
	11 3^{48} a	11 7^{45} a	11 11^{55} a	11 4^{19} p	11 7^{48} p	11 11^{45} p	23 3^{48} a	23 7^{46} a	23 11^{50} a	23 3^{44} p	23 7^{47} p	23 11^{50} p
$2\frac{1}{2}$	N 32 W 76	N 55 W 58	N 12 W 76	N 53 W 64	N 15 W 46	N 27 W 81	N 03 W 11	N 18 E 27	N 05 W 61	S 19 E 5	N 55 E 16	N 20 E 67
5	N 11 W 86	N 04 W 58	N 09 E 83	N 09 E 80	N 04 W 67	N 14 E 93	N 05 E 11	N 42 E 8	N 10 W 71	S 01 W 8	S 22 E 6	N 20 E 75
10	N 05 W 86	N 04 W 69	N 20 E 93	N 03 W 72	N 16 W 68	N 14 E 79	N 27 E 7	S 04 E 5	N 10 W 55	S 04 E 11	S 24 W 20	N 20 E 73
15	N 08 E 73	N 07 E 63	N 08 E 83	N 02 W 63	N 41 W 54	N 14 E 85	S 08 W 10	S 09 E 10	N 10 W 27	S 20 E 18	S 08 E 37	N 05 W 61
20	N 04 W 56	N 06 W 45	N 08 E 73	N 10 E 50	N 28 W 56	N 14 E 81	S 05 E 11	S 26 W 5	S 16 E 5	S 20 E 22	S 03 W 40	N 30 W 57
	12 3^{45} a	12 7^{45} a	12 11^{50} a	12 3^{45} p	12 7^{44} p	12 11^{45} p	24 3^{45} a	24 7^{50} a	24 11^{50} a	24 3^{46} p	24 7^{44} p	24 11^{45} p
$2\frac{1}{2}$	N 33 W 76	N 53 W 58	N 42 W 79	N 25 W 58	N 23 W 23	N 27 W 67	N 29	N 74 E 4	N 05 W 62	N 10 E 6	N 48 W 14	N 16 W 00
5	N 26 E 75	N 18 E 76	N 26 E 84	N 06 E 70	N 01 W 46	N 04 E 84	N 31 E 29	S 09 W 6	N 05 E 75	S 70 W 6	S 07 E 18	N 01 W102
10	N 25 E 81	N 18 E 73	N 17 E 113	N 16 E 89	N 47	N 17 E 84	N 10 E 35	S 36 E 21	N 06 E 50	S 20 E 6	S 13 E 39	N 20 E 62
15	N 25 E 69	N 19 E 83	N 56 E 82	N 04 E 78	N 16 E 46	N 17 E 72	S 29 W 25	S 23 E 48	N 11 W 27	S 13 W 39	S 23 E 57	N 08 W 66
20	N 24 E 84	N 19 E 79	N 03 W 98	N 26 E 70	N 52	N 01 E 65	S 01 W 24	S 05 W 37	N 18 W 14	S 34 W 35	S 25 W 43	N 08 W 57
	13 3^{51} a	13 7^{45} a	13 11^{45} a	13 3^{49} p	13 7^{50} p	13 11^{50} p	25 3^{45} a	25 7^{48} a	25 11^{49} a	25 3^{50} p	25 7^{48} p	25 11^{46} p
$2\frac{1}{2}$	N 22 W 90	N 33 W 67	N 12 W 76	N 26 W 84	N 25 W 67	N 27 W 81	N 22 W 74	N 13 W 51	N 22 W 80	N 15 E 25	S 05 E 57	N 08 E 16
5	N 10 E 92	N 03 W 87	N 12 E 92	N 19 E 97	N 06 E 66	N 02 W 86	N 10 E 92	N 02 E 60	N 10 E 92	N 47 W 16	S 05 E 52	N 18 E 13
10	N 02 W 84	N 03 W 80	N 20 E 88	N 17 E 117	N 06 E 64	N 10 E 88	N 20 E 65	S 14 E 28	N 20 E 75	N 77 E 21	S 16 E 57	N 38 E 25
15	N 12 E 117	N 03 W 77	N 08 E 75	N 04 E 86	N 07 E 53	N 13 E 50	S 76 W 17	S 02 W 35	N 26 W 17	N 88 W 20	S 27 E 57	N 18 E 34
20	N 14 E 78	N 18 E 74	N 04 E 51	N 16 W 92	N 20 E 39	N 23 W 42	N 21 W 26	S 03 W 35	N 04 W 10	S 73 W 31	S 27 E 45	N 07 E 36
	14 3^{49} a	14 7^{45} a	14 11^{47} a	14 4^{50} p	14 7^{49} p	14 11^{48} p	26 3^{45} a	26 7^{45} a	26 11^{45} a	26 3^{45} p	26 7^{45} p	26 11^{52} a
$2\frac{1}{2}$	N 11 W 96	N 33 W 85	N 23 W 64	N 11 W108	N 32 W108	N 16 W108	N 14 E 21	S 18 E 76	S 13 E 40	N 45 W 13	S 33 E 40	S 36 E 30
5	N 11 W 96	N 01 W 83	N 02 W 75	N 113	N 04 E 98	N 07 E 130	N 14 E 21	S 08 E 88	S 23 E 43	N 30 W 13	S 33 E 50	S 26 E 18
10	N 18 E 101	N 02 W 75	N 38 E 39	N 30 E 110	N 25 E 68	N 20 E 64	N 24 E 24	S 05 W 71	S 34 E 41	N 16 W 13	S 33 E 37	N 08 W 17
15	N 24 W 88	N 01 E 37	N 17 W 43	N 08 E 70	N 26 E 53	N 36 E 55	N 14 E 23	S 24 E 69	N 06 W 29	N 05 W 18	S 07 W 21	N 10 W 25
20	N 26 W 64	N 01 E 35	N 15 E 34	N 46 W 63	N 06 W 43	N 01 E 45	N 03 E 31	S 13 E 39	N 06 W 34	N 05 E 17	S 24 W 18	N 29

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende January 27—February 19 1913.

Meter	27 3^{44} a	27 7^{45} a	27 11^{45} a	27 3^{48} p	27 7^{45} p	27 11^{45} p	8 3^{44} a	8 7^{49} a	8 11^{46} a	8 3^{45} p	8 7^{45} p	8 11^{52} p
2½	N 15 E 33	N 07 E 9	S 69 E 11	N 43 W 48	N 02 W 21	S 71 W 20	N 30 W 16	N 07 E 76	N 07 E 96	N 38 E 58	S 12 E 124	S 03 E 124
5	N 15 E 43	N 07 E 7	N 01 E 40	N 02 W 65	N 23 W 25	N 42 E 33	S 25 E 13	N 35 W 63	N 13 E 86	N 18 E 75	S 10 W187	S 14 E 138
10	N 15 E 44	N 18 E 11	N 11 E 42	N 20 E 78	N 22 W 32	N 24	S 06 W 53	S 20 W 27	N 01 W 96	S 18 E 39	S 11 W101	N 72 W 47
15	N 52 W 12	S 43 E 11	N 13 E 21	N 19 E 75	S 48 E 23	N 23 E 13	S 20 E 88	S 20 W 26	N 13 W 72	S 58 W 43	S 10 W163	S 16 W111
20	N 74 W 11	S 07 W 16	N 14 E 11	N 22 E 26	S 47 E 17	S 40 E 17	S 08 E 88	S 12 W 16	N 18 W 68	S 58 W 41	S 05 E 114	S 08 E 92
	28 3^{48} a	**28** 7^{45} a	**28** 11^{45} a	**28** 3^{44} p	**28** 7^{44} p	**28** 11^{52} p	**9** 3^{45} a	**9** 7^{42} a	**9** 11^{42} a	**9** 3^{46} p	**9** 7^{43} p	**9** 11^{45} p
2½	N 32 W 80	N 26 W 36	N 23 W 59	N 16 W 85	N 22 W 71	N 27 W 80	S 13 E 96	S 05 W 36	N 44 E 56	E 25	N 52 E 26	S 10 W 32
5	N 02 W 89	N 04 E 48	N 18 E 56	N 05 W 94	N 10 E 84	N 17 W 89	S 99	S 50	N 44 E 46	N 16 W 33	N 30 E 18	S 25 W 46
10	N 31 E 91	N 04 E 74	N 28 E 72	N 08 E 54	N 08 E 77	N 17 W 57	S 01 E 103	S 20 E 48	N 08 E 61	N 30 W 17	N 26 E 10	S 15 W 34
15	N 09 E 81	N 04 E 25	W 24	N 07 E 60	N 03 W 69	S 11 E 41	S 20 E 100	S 01 W 33	N 01 E 41	N 25 E 28	N 48	S 53 W 20
20	N 09 W 32	S 17 E 30	S 41 W 26	N 20 E 55	S 38 W 20	S 03 W 29	S 59 W 62	N 76 W 10	N 41 W 36	N 10 W 41	N 12 E 26	S 44 W 17
	29 3^{45} a	**29** 7^{45} a	**29** 11^{45} a	**29** 3^{44} p	**29** 7^{44} p	**29** 11^{48} p	**10** 3^{45} a	**10** 7^{36} a	**10** 11^{42} a	**10** 3^{44} p	**10** 7^{46} p	**10** 11^{50} p
2½	N 11 W 81	N 01 W 76	N 16 W 53	N 10 E 124	N 10 W124	N 10 E 96	S 18 E 48	S 27 W 53	S 04 E 11	N 05 W 13	N 57 E 28	N 29 E 13
5	N 01 W 92	N 01 W 88	N 05 W 45	N 10 E 121	N 03 E 99	N 10 E 98	S 03 W 58	S 17 W 58	S 09 E 11	N 19	N 10 E 36	N 39 E 25
10	N 10 E 79	N 10 E 62	N 12 E 21	N 10 E 80	N 01 E 120	N 10 E 97	S 02 W 56	S 09 W 41	S 14 E 14	N 42 E 27	N 04 W 28	N 08 E 28
15	N 11 E 58	N 05 W 30	S 02 E 36	N 10 E 14	N 58 W 44	N 10 E 43	S 03 W 46	S 70 W 3	N 02 E 6	N 34 E 20	N 06 E 33	N 51 E 27
20	N 14 E 38	N 66 W 15	S 10 W 28	N 10 E 45	N 42 E 64	N 10 E 36	S 03 W 22	N 20 E 5	N 08 W 17	N 40 W 17	N 32	N 51 E 31
	30 3^{45} a	**30** 7^{46} a	**30** 11^{45} a	**30** 3^{50} p	**30** 7^{45} p	**30** 11^{44} p	**11** 3^{50} a	**11** 7^{40} a	**11** 11^{44} a	**11** 3^{45} p	**11** 7^{47} p	**11** 11^{44} p
2½	N 05 W124	N 05 E 124	N 11 W 77	N 10 E 108	N 15 E 151	N 05 E 124	N 18 E 23	N 25 W 4	N 25 E 13	N 36 W 23	N 07 E 13	N 52 W 9
5	N 08 E 122	N 05 E 121	N 11 W 90	N 10 E 113	N 15 E 157	N 05 E 138	N 01 W 32	N 33 W 7	N 02 E 16	N 16 W 27	N 03 E 20	N 42 W 11
10	N 08 E 81	N 05 E 121	N 10 E 54	N 10 E 80	N 15 E 113	N 32 W 55	N 06 E 51	N 31 W 20	N 84 E 13	N 15 W 24	N 14 W 15	N 42 W 11
15	N 79 W 38	N 42 W 55	N 45 W 48	S 46 W 43	N 88 W 49	N 80 E 59	N 05 W 52	S 69 W 6	S 05 E 20	N 27 W 5	S 81 W 7	S 04 E 18
20	N 24 E 47	N 58 W 43	S 12 E 98	N 14 E 77	S 65 W 45	S 63	N 25 W 30	S 37 E 2	S 26 E 10	N 60 W 6	S 59 W 6	S 05 W 11
	31 3^{44} a	**31** 8^{05} a	**31** 11^{50} a	**31** 3^{50} p	**31** 7^{50} p	**31** 11^{48} p	**12** 3^{45} a	**12** 7^{44} a	**12** 11^{44} a	**12** 3^{44} p	**12** 7^{46} p	**12** 11^{40} p
2½	N 10 E 130	N 11 W176	N 11 W141	N 01 E 40	S 12 E 71	S 16 E 136	N 07 E 46	N 15 E 34	N 08 W 6	N 09 W 70	N 04 W 48	N 30 W 16
5	N 10 E 162	N 11 W175	N 11 W134	N 01 E 53	S 09 W 93	S 04 E 160	N 03 E 44	N 05 W 30	N 28 W 7	N 09 W 49	N 14 W 33	N 10 E 13
10	N 07 W134	N 08 E 124	N 05 E 140	S 26 W 25	S 24 E 93	S 05 E 126	N 09 W 45	N 17 W 22	N 04 E 7	N 09 W 51	N 20 W 39	N 26 E 13
15	S 12 W 69	N 30 E 132	N 20 W 93	S 17 E 35	S 01 E 86	S 05 E 113	N 10 W 23	N 56 W 12	S 03 E 15	N 23 W 20	S 54 W 2	S 14 E 18
20	S 51 E 45	N 30 E 99	S 16 E 87	S 27 E 60	S 18 W108	S 05 E 127	N 34 W 11	0 0	S 10 W 13	N 24 W 7	S 59 W 5	S 16 W 21
	1 3^{45} a	**1** 7^{45} a	**1** 11^{48} a	**1** 3^{46} p	**1** 7^{44} p	**1** 11^{45} p	**13** 3^{46} a	**13** 7^{45} a	**13** 11^{44} a	**13** 3^{45} p	**13** 7^{48} p	**13** 11^{50} p
2½	S 51 E 88	N 15 E 11	N 40 E 11	N 17 E 29	N 04 W 87	N 11 E 59	N 02 E 55	N 12 W 9	S 88 W 6	N 14 E 25	N 08 E 26	N 01 W 16
5	S 51 E 79	N 15 E 8	N 05 W 19	N 07 E 20	N 19 W 87	N 11 E 79	N 02 E 47	N 12 W 23	S 07 E 6	N 14 E 33	N 20 E 36	S 19 W 13
10	S 26 E 54	N 05 E 46	N 21 E 20	N 08 E 28	N 14 W 34	N 55	N 01 W 34	N 12 W 15	S 03 W 40	N 01 W 9	N 20 E 34	S 19 W 16
15	S 23 E 40	N 40 W 40	N 25 E 32	N 24 W 8	N 06 E 36	N 01 W 34	N 01 W 19	S 25 W 20	S 03 W 59	S 14 W 13	N 43 W 11	S 09 W 21
20	S 56 W 12	N 37 W 34	N 20 W 19	S 08 W 5	N 06 W 22	N 04 E 22	N 16 W 19	S 21 W 25	S 02 E 36	N 67 W 13	S 52 W 5	S 09 W 20
	2 3^{44} a	**2** 7^{44} a	**2** 11^{44} a	**2** 3^{48} p	**2** 7^{45} p	**2** 11^{45} p	**14** 3^{43} a	**14** 7^{46} a	**14** 11^{40} a	**14** 3^{44} p	**14** 7^{46} p	**14** 11^{45} p
2½	N 20 W 21	N 15 E 45	N 13 E 42	S 60 W 7	N 02 E 33	N 11 E 48	N 31 E 56	N 10 E 45	N 61 W 7	N 24 E 76	N 29 E 91	N 26 W 13
5	N 30 W 29	N 15 E 56	N 18 E 50	S 85 W 9	N 02 E 41	N 11 E 63	N 42 E 55	N 20 E 45	S 59 W 7	N 14 E 70	N 24 E 74	N 36 W 14
10	S 11 E 27	N 15 E 31	N 36 E 29	S 06 W 31	S 32 E 27	N 11 E 38	N 44 W 10	N 20 E 30	S 20 W 9	N 89 W 15	N 04 E 33	S 26 E 12
15	S 12 E 22	N 09 W 32	N 06 W 15	S 16 E 54	S 26 E 20	N 01 W 33	N 73 W 10	N 11 W 13	S 07 E 30	S 56 W 9	N 34 W 17	S 06 E 30
20	S 26 E 33	N 02 E 21	N 70 W 7	S 48 W 53	S 24 W 5	N 15 W 26	N 44 W 16	N 48 W 17	S 13 E 28	S 81 W 7	N 05 W 21	S 16 E 38
	3 3^{45} a	**3** 7^{37} a	**3** 11^{40} a	**3** 3^{48} p	**3** 7^{44} p	**3** 11^{46} p	**15** 3^{45} a	**15** 7^{44} a	**15** 11^{45} a	**15** 3^{46} p	**15** 7^{46} p	**15** 11^{45} p
2½	N 19 E 57	N 05 W 88	N 04 E 51	S 67 W 11	N 16 E 48	N 27 E 25	N 02 E 46	N 12 E 60	N 76 W 9	N 34 E 14	N 02 E 83	N 76 W 9
5	N 09 E 65	N 26 W 92	N 21 W 58	N 83 W 6	N 06 E 44	N 27 E 40	N 02 E 42	N 02 E 60	S 74 W 11	N 18 W 9	N 04 W 63	S 74 W 11
10	N 09 E 28	N 15 W 97	N 58	S 18 E 70	S 36 E 20	S 18 W 30	S 45 W 23	N 10 W 36	S 16 E 14	S 19 W 16	N 10 W 38	S 17 E 14
15	N 42 W 15	N 02 W 67	S 66 W 4	S 13 E 86	S 07 E 42	S 34	S 15 W 17	N 03 E 9	S 06 E 33	S 14 W 13	N 12 W 20	S 06 E 33
20	N 54 W 10	N 05 E 41	N 07 W 12	S 07 E 72	S 08 W 43	S 30 W 25	S 05 W 14	N 60 W 8	S 06 E 40	S 08 W 12	N 10 W 27	S 06 E 40
	4 3^{15} a	**4** 7^{42} a	**4** 11^{43} a	**4** 3^{48} p	**4** 7^{45} p	**4** 11^{45} p	**16** 3^{45} a	**16** 7^{38} a	**16** 11^{42} a	**16** 3^{48} p	**16** 7^{48} p	**16** 11^{45} p
2½	S 19 E 32	N 30 E 21	0	S 33 E 42	S 11 E 11	N 79 E 18	N 10 E 34	N 12 W 91	N 05 W 20	N 05 E 11	N 17 W 62	N 19 E 59
5	S 19 E 41	S 35 E 33	S 49 W 4	S 13 E 82	S 58 E 36	N 79 E 16	N 10 E 33	N 13 E 57	N 05 W 8	N 15 E 17	N 14 E 73	N 19 E 41
10	S 09 E 69	N 56 E 20	N 59 W 16	S 02 E 76	S 01 W 10	N 18 E 18	S 18 W 17	N 08 W 55	S 34 E 5	S 12 W 23	N 03 E 65	N 16 W 27
15	S 11 E 77	S 67 W 15	N 10 W 16	S 02 E 56	S 64 W 11	N 17 E 12	S 10 W 27	N 02 W 35	S 10 E 20	S 07 W 28	N 26 W 58	N 20 E 20
20	S 17 E 52	S 05 W 10	N 53 W 10	S 02 E 48	N 45 W 12	N 06 E 15	S 25	N 09 W 34	S 10 W 18	S 08 W 25	N 04 E 44	N 65 W 15
	5 3^{45} a	**5** 7^{46} a	**5** 11^{44} a	**5** 3^{44} p	**5** 7^{46} p	**5** 11^{45} p	**17** 3^{48} a	**17** 7^{44} a	**17** 11^{30} a	**17** 3^{43} p	**17** 7^{43} p	**17** 11^{49} p
2½	N 27 E 13	N 01 E 50	N 19 E 74	N 17 E 33	N 02 E 36	N 01 E 70	S 36 E 13	N 07 E 79	N 79	N 20 W 21	N 03 W 88	N 09 E 89
5	N 57 E 13	N 12 E 45	N 01 E 74	N 02 E 39	N 02 E 15	N 01 E 54	N 41 W 20	N 04 E 84	N 07 E 102	N 02 W 21	N 07 E 98	N 19 E 89
10	S 86 W 16	N 10 W 32	N 15 E 72	N 46 W 4	S 16 W 34	N 12 W 19	S 05 E 11	N 11 E 82	N 09 E 66	S 17 E 15	N 09 E 43	N 31 E 44
15	N 64 W 20	N 06 W 27	N 07 W 61	N 46 W 4	S 12 W 27	N 03 E 24	S 17 E 20	N 04 E 57	N 15 W 27	S 05 W 50	N 01 E 42	N 07 W 22
20	S 66 W 13	N 26 W 25	N 22 W 36	S 62 W 2	S 18 E 32	N 16 E 28	S 26 W 20	N 07 W 49	N 33 E 21	S 16 W 33	N 01 E 29	N 46 W 14
	6 3^{15} a	**6** 7^{47} a	**6** 11^{46} a	**6** 3^{44} p	**6** 7^{42} p	**6** 11^{46} p	**18** 3^{45} a	**18** 7^{44} a	**18** 11^{48} a	**18** 4^{20} p	**18** 7^{47} p	**18** 11^{48} p
2½	N 14 E 33	N 15 E 46	N 10 E 29	N 30 W 11	S 50 W 4	N 01 E 33	N 10 E 18	N 10 E 83	N 24 E 59	N 10 W 20	N 17 E 74	N 05 E 91
5	N 29 E 32	N 14 E 52	N 10 E 40	S 35 W 13	S 31 W 9	N 10 W 21	S 74 E 11	N 36 E 81	N 24 E 73	N 20 W 25	N 12 E 73	N 05 E 74
10	S 31	S 06 W 27	N 03 E 16	S 60	S 05 E 27	N 10 W 9	S 44 E 13	N 83 W 12	N 17 E 12	S 10 W 41	S 52 W 10	N 05 E 65
15	S 28 E 53	S 05 W 25	N 22 W 18	S 03 W 46	S 13 W 26	S 64 W 16	S 01 W 30	S 79 W 11	S 56 W 9	S 10 W 39	S 45 E 2	N 05 E 58
20	S 07 E 55	S 20 W 17	N 31 W 15	S 03 W 50	S 05 W 21	N 85 W 15	S 16 W 24	S 79 W 11	S 54 W 8	S 10 W 58	N 26 E 10	N 05 E 31
	7 3^{45} a	**7** 7^{42} a	**7** 11^{42} a	**7** 3^{46} p	**7** 7^{44} p	**7** 11^{45} p	**19** 3^{45} a	**19** 7^{45} a	**19** 11^{42} a	**19** 3^{46} p	**19** 7^{52} p	**19** 11^{48} p
2½	N 30 E 21	N 25 W 85	N 06 E 64	N 18 E 42	N 01 E 29	N 15 E 80	N 08 W 37	N 09 W 68	N 22 E 87	N 06 W 26	N 04 W 64	N 22 E 80
5	N 30 E 29	N 10 E 85	N 13 E 79	N 06 W 31	N 14 E 34	N 25 E 74	N 08 W 32	N 04 W 67	N 22 E 85	N 41 W 15	N 09 W 49	N 12 E 89
10	N 30 E 12	N 06 E 40	N 01 W 52	N 04 E 41	S 19 W 34	N 25 E 54	N 04 E 31	N 86 W 6	N 10 E 40	S 02 W 11	S 68 W 1	N 12 E 64
15	S 03 W 21	N 05 E 48	N 15 W 51	N 44 E 20	S 19 W 36	N 12 E 34	S 10 E 28	S 34 W 4	N 24 W 13	S 44	S 05 W 12	N 09 W 23
20	S 14 W 17	N 30 W 28	N 16 W 47	S 19 W 26	S 20 W 34	N 10 E 28	S 19 E 27	S 14 W 6	N 87 W 8	S 24 E 38	S 56 W 6	N 12 W 19

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende February 20—March 15 1913.

Meter	20 3^{44} a	20 7^{44} a	20 11^{42} a	20 3^{57} p	20 7^{44} p	20 11^{48} p	4 3^{45} a	4 7^{50} a	4 11^{48} a	4 3^{45} p	4 7^{46} p	4 11^{51} p
$2^1/_2$	N 08 W 16	N 01 E 41	N 01 E 55	N 06 W 13	N 34 W 8	N 44 E 13	S 13 E 70	S 21 E 48	S 12 W 16	S 11 W 24	N 75 E 31	N 34 E 91
5	N 18 W 18	N 09 W 41	N 20 E 47	N 46 E 20	S 11 W 11	N 74 E 16	S 03 E 75	S 16 E 45	S 79 E 13	S 10 E 38	N 45 E 15	N 34 E 72
10	S 11 E 21	S 16 E 18	N 20 E 48	S 19 E 77	S 04 E 34	N 30 W 11	S 02 E 76	W 13	S 80 E 11	S 12 W 25	N 46 W 25	N 13 E 61
15	S 11 E 50	S 16 E 20	N 52 W 17	S 02 W 87	S 01 W 33	N 69 W 16	S 09 W 85	N 33 W 10	N 82 E 6	S 35 E 18	N 16 E 35	N 02 E 43
20	S 08 E 21	S 08 E 17	N 79 W 19	S 18 W 34	S 06 W 22	N 06 W 10	S 20 W 87	N 05 W 10	N 50 W 12	S 72 W 14	S 05 W 1	N 50 W 34
	21 3^{48} a	**21** 7^{47} a	**21** 11^{47} a	**21** 3^{47} p	**21** 7^{46} p	**21** 11^{50} p	**5** 3^{50} a	**5** 7^{48} a	**5** 11^{46} a	**5** 3^{45} p	**5** 7^{45} p	**5** 11^{49} p
$2^1/_2$	S 52 E 19	S 27 W 14	S 45 W 16	S 25 W 40	S 18 E 30	N 52 E 29	N 55 E 36	N 30 E 77	S 79 E 27	S 50 E 48	S 45 E 62	N 19 E 36
5	S 52 E 30	S 72 E 13	N 07 E 25	S 25 W 46	S 11 E 34	N 52 E 36	N 16 E 44	N 36 E 77	S 18 E 26	S 03 E 58	S 13 E 79	N 19 E 50
10	S 20 E 24	N 44 W 20	N 07 E 70	S 04 E 41	S 11 E 57	N 02 W 22	S 76 W 24	S 50 W 20	S 30 W 25	S 03 W 78	S 13 E 76	N 04 W 22
15	S 07 E 14	N 39 E 23	N 08 W 52	S 61 E 12	N 03 E 22	N 10 E 41	S 25 W 24	N 27 W 8	S 16 W 45	S 82	S 24 E 66	N 10 E 29
20	S 05 E 27	N 08 E 21	N 64 W 41	S 74 E 6	N 11 W 30	N 35	S 02 E 34	N 27 W 8	S 01 E 52	S 12 W 64	S 02 E 47	N 04 E 30
	22 3^{45} a	**22** 7^{42} a	**22** 11^{45} a	**22** 3^{46} p	**22** 7^{46} p	**22** 11^{45} p	**6** 3^{54} a	**6** 7^{47} a	**6** 11^{44} a	**6** 4^{14} p	**6** 7^{42} p	**6** 11^{50} p
$2^1/_2$	S 12 E 29	S 12 E 24	N 19 E 42	N 05 E 14	N 18 W 6	N 37 W 11	N 44 E 55	N 15 E 71	N 15 E 108	N 38 W 9	N 06 W 18	N 12 E 59
5	S 23 E 25	S 10 E 32	N 19 E 48	N 05 W 20	S 32 W 11	N 37 W 20	N 55 E 58	N 20 E 75	N 15 E 108	N 02 E 23	N 16 W 33	N 23 E 69
10	S 12 E 24	S 20 E 34	N 19 E 49	N 58 E 21	S 02 W 31	N 06 W 20	S 62 W 27	N 10 E 79	N 13 E 108	N 10 E 7	N 27 W 18	N 44 E 77
15	S 13	N 50 E 10	N 19 E 56	S 23 W 15	S 04 E 40	N 12 W 24	S 62 W 32	N 04 W 57	N 20 E 97	S 36 E 12	S 17 W 18	N 07 W 17
20	S 15 E 8	N 14 W 12	N 06 E 31	S 32 E 14	S 08 E 39	N 12 W 18	S 80 W 28	N 04 E 47	N 09 E 50	S 13 E 29	S 03 W 20	N 20 E 31
	23 3^{48} a	**23** 7^{49} a	**23** 11^{46} a	**23** 3^{49} p	**23** 7^{46} p	**23** 11^{46} p	**7** 3^{48} a	**7** 7^{44} a	**7** 11^{50} a	**7** 3^{44} p	**7** 7^{44} p	**7** 11^{49} p
$2^1/_2$	N 38 E 16	S 30 W 16	N 50 E 64	N 27 E 20	S 29 E 27	N 58 E 16	N 10 E 53	S 45 E 41	N 09 W 67	S 20 E 58	S 85 E 26	N 39 E 29
5	N 74 E 20	S 20 E 26	N 30 E 63	N 48 E 5	S 09 E 40	N 48 E 21	N 45	S 67	N 20 W 58	S 15 W 68	S 20 E 48	N 34 E 25
10	N 84 W 9	S 26 W 24	N 22 W 56	N 65 E 3	S 24 W 52	N 26 E 8	N 01 W 18	S 10 W 79	N 03 W 64	S 05 E 85	S 46 E 52	N 29 E 25
15	S 06 W 16	S 09 E 38	N 13 W 28	S 22 E 32	S 07 W 55	N 04 E 10	S 09 E 43	S 10 W 88	N 61 W 44	S 04 E 80	N 01 W 48	N 29 E 22
20	S 04 W 23	S 04 W 35	N 26 W 13	S 22 E 36	S 24 E 20	N 40 W 19	S 19 E 43	S 01 E 89	N 65 W 37	S 04 E 75	S 64 W 40	S 80 W 24
	24 3^{45} a	**24** 7^{43} a	**24** 11^{47} a	**24** 4^{15} p	**24** 7^{46} p	**24** 11^{46} p	**8** 3^{48} a	**8** 7^{45} a	**8** 11^{38} a	**8** 3^{44} p	**8** 7^{48} p	**8** 11^{48} p
$2^1/_2$	S 30 E 19	S 27 E 67	S 53 E 25	N 52 W 16	S 65 E 6	N 25 E 11	S 49 E 124	S 36 E 79	S 38 E 42	S 35 E 76	S 73 E 27	N 61 E 29
5	S 25 E 39	S 01 E 84	S 36 W 40	N 40 W 14	S 30 E 21	N 15 E 14	S 26 E 138	S 07 E 94	S 21 E 53	S 10 E 76	S 73 E 37	N 63 E 18
10	S 03 W 42	S 05 W 74	N 43 E 18	S 71 E 13	S 20 E 24	N 15 W 22	S 26 E 119	S 18 E 57	S 15 E 33	S 04 E 79	S 28 E 20	N 41 E 21
15	S 02 E 27	S 05 E 55	N 45 E 26	N 78 E 16	S 12 E 28	N 15 W 28	S 27 E 115	S 04 E 41	S 54 W 23	S 06 E 69	S 19 E 25	N 04 W 24
20	S 40 W 14	S 02 W 39	N 16 E 26	S 24 E 27	S 50 W 13	N 05 W 31	S 27 E 76	S 21 W 30	S 65 W 22	S 24 W 39	S 20 E 17	N 44 W 29
	25 3^{50} a	**25** 7^{44} a	**25** 11^{44} a	**25** 3^{49} p	**25** 7^{52} p	**25** 11^{50} p	**9** 3^{48} a	**9** 7^{44} a	**9** 11^{45} a	**9** 3^{50} p	**9** 7^{52} p	**9** 11^{50} p
$2^1/_2$	N 24 E 40	N 11 E 25	N 14 E 61	N 11 E 69	N 17 W 20	N 03 W 37	S 31 E 16	N 01 E 6	N 38 E 14	S 23 E 27	N 75 E 16	N 47 E 25
5	N 20 E 39	N 02 E 33	N 14 E 58	N 11 E 70	N 07 W 31	N 03 W 32	N 28 W 16	N 24 E 11	N 08 E 31	S 13 E 25	S 06 W 21	N 07 E 21
10	N 20 E 58	N 14 E 11	N 05 E 13	N 73	N 12 W 48	S 12 E 16	N 28 W 20	N 35 E 13	N 13 E 41	S 81 E 4	S 15	N 14 W 24
15	N 31 E 56	S 51 W 10	N 02 W 13	N 12 W 43	S 05 E 11	S 02 E 34	N 08 W 15	N 29 E 7	N 04 E 47	S 88 W 6	S 27 W 10	N 14 W 27
20	N 06 E 33	S 60 W 14	N 28 W 20	N 18 W 35	S 23	S 02 E 33	N 20 W 15	N 66 W 13	N 14 W 39	N 82 W 19	S 60 W 10	N 14 W 26
	26 3^{44} a	**26** 7^{48} a	**26** 11^{42} a	**26** 3^{45} p	**26** 7^{44} p	**26** 11^{46} p	**10** 3^{48} a	**10** 7^{50} a	**10** 11^{44} a	**10** 3^{51} p	**10** 7^{44} p	**10** 11^{48} p
$2^1/_2$	N 22 E 58	N 18 W 16	N 01 W 19	N 01 W 56	N 19 W 34	N 05 E 16	S 67 E 40	S 36 E 48	S 38 E 53	S 33 E 119	S 33 E 96	S 78 E 20
5	N 22 E 55	N 28 W 14	N 01 W 24	N 01 W 58	N 03 E 32	N 05 E 13	S 31 E 39	S 16 E 75	S 30 E 47	S 04 E 123	S 01 W106	N 71 E 21
10	N 12 E 41	S 57 W 6	S 08 W 27	N 12 W 38	N 78 W 1	S 05 W 43	S 36 E 23	S 03 W 60	S 08 E 69	S 156	S 01 W 84	N 71 E 22
15	N 05 W 18	S 23 E 33	S 02 E 33	N 14 W 24	S 08 W 8	S 05 E 47	S 36 E 30	S 07 W 43	S 02 E 67	S 09 W151	S 17 E 107	S 45 W 17
20	N 42 W 15	S 33 E 31	S 07 E 28	N 14 W 24	S 24 W 7	S 17 W 31	S 02 W 37	S 10 W 30	S 12 W 58	S 07 E 94	S 07 W 84	S 66 W 12
	27 3^{46} a	**27** 7^{44} a	**27** 11^{42} a	**27** 4^{05} p	**27** 7^{46} p	**27** 11^{48} p	**11** 3^{46} a	**11** 7^{46} a	**11** 11^{46} a	**11** 3^{46} p	**11** 7^{45} p	**11** 11^{48} p
$2^1/_2$	N 19 E 44	N 11 E 27	N 68 W 7	N 37 E 53	N 12 E 53	N 19 E 19	S 40 E 16	S 58 E 13	N 16 E 74	N 11 W 36	N 53 W 9	S 15 E 48
5	N 30 E 44	N 01 E 40	S 70 W 4	N 37 E 58	N 37 W 33	N 21 E 22	S 04 W 21	E 8	N 61	N 43 W 34	S 17 W 13	S 15 E 79
10	N 44 W 8	S 16 W 15	S 10 E 40	N 16 E 20	N 20 E 47	S 29 W 17	S 04 W 28	S 79 E 18	N 09 E 75	N 17 E 15	S 10 E 20	S 09 E 55
15	N 50 W 8	S 10 W 16	S 16 W 53	N 26 W 18	N 08 W 25	S 27 E 12	S 08 E 24	S 89 E 20	N 07 E 68	N 20 W 22	N 23 W 6	S 15 W 43
20	N 44 W 13	S 42 W 15	S 15 W 45	N 08 E 20	N 64 W 17	S 25 E 19	S 22 W 21	S 75 E 19	N 09 E 61	N 53 W 25	S 50 W 5	S 20 W 30
	28 3^{50} a	**28** 7^{51} a	**28** 11^{48} a	**28** 3^{46} p	**28** 7^{46} p	**28** 11^{50} p	**12** 3^{50} a	**12** 7^{48} a	**12** 11^{44} a	**12** 3^{44} p	**12** 7^{45} p	**12** 11^{45} p
$2^1/_2$	N 39 E 21	N 06 E 24	S 08 W 45	S 16 E 11	N 02 E 80	N 14 E 59	S 32 E 96	S 12 E 48	S 33 E 44	N 71 E 9	N 12 E 19	N 60 E 59
5	N 10 W 46	N 13 W 28	S 08 W 67	S 41 E 24	N 15 E 85	N 24 E 58	S 01 W117	S 09 W 85	S 04 W 46	S 34 E 11	N 14 W 13	N 50 E 58
10	N 09 E 58	N 29 W 30	S 05 E 63	S 56 E 29	N 10 E 92	N 01 W 58	S 119	S 02 E 63	S 04 W 39	S 08 E 20	N 08 E 20	N 07 E 46
15	N 10 E 67	S 70 E 17	S 13 E 43	N 24 W 25	N 06 W 38	N 01 W 54	S 91	S 10 E 56	S 65 W 32	S 06 E 18	N 01 W 20	N 05 W 46
20	N 09 E 58	N 88 E 23	S 08 W 34	N 22 W 33	N 42 W 23	N 15 E 45	S 74	S 03 E 49	S 29	N 83 W 13	N 12 W 20	N 01 W 37
	1 3^{51} a	**1** 7^{46} a	**1** 11^{42} a	**1** 3^{47} p	**1** 7^{47} p	**1** 11^{46} p	**13** 3^{48} a	**13** 7^{45} a	**13** 11^{50} a	**13** 3^{50} p	**13** 7^{44} p	**13** 11^{48} p
$2^1/_2$	N 46 W 29	N 11 W 76	N 33 W 25	N 40 W 32	N 19 E 66	N 05 E 36	N 34 E 60	N 35 E 79	S 08 E 25	S 59 E 25	S 75 E 16	S 18 W 5
5	N 05 W 51	N 13 W 79	N 09 E 30	S 21 W 9	N 25 E 73	N 16 E 32	N 03 E 52	N 40 E 55	S 24 E 18	S 27 E 25	S 16 W 31	S 27 W 14
10	N 08 E 65	N 10 E 68	N 19 W 17	S 18 E 36	N 10 E 68	N 16 E 26	N 04 E 64	N 19 W 44	S 19 E 12	S 05 E 17	S 15 W 32	S 40 W 7
15	N 02 W 56	N 20 W 35	S 04 W 21	S 08 E 43	N 26 W 18	S 20 W 17	N 04 E 58	N 18 W 40	S 70 W 8	N 63 E 25	S 10 W 38	S 49 W 10
20	N 14 W 50	N 47 E 15	S 05 W 26	S 28 E 4	N 44 W 17	S 13 W 20	N 16 E 55	N 21 W 43	S 70 W 20	N 28 E 16	S 04 W 31	S 63 W 6
	2 3^{45} a	**2** 7^{50} a	**2** 11^{46} a	**2** 3^{48} p	**2** 7^{46} p	**2** 11^{47} p	**14** 3^{50} a	**14** 7^{47} a	**14** 11^{40} a	**14** 3^{47} p	**14** 7^{44} p	**14** 11^{42} p
$2^1/_2$	N 09 W 30	N 04 W 79	N 05 W 64	N 02 W 57	N 08 E 96	N 01 E 67	N 13 W 11	N 52 E 49	N 75 E 46	N 47 E 13	N 25 E 25	S 56 W 7
5	N 07 W 33	N 03 E 92	N 09 E 75	N 10 W 42	N 23 E 116	N 01 E 84	N 33 W 11	N 19 E 19	S 18 W 20	N 12 E 41	N 05 E 36	N 45 E 14
10	S 03 W 18	N 05 E 90	N 11 W 56	S 19 E 37	N 01 E 114	N 01 E 84	N 03 W 14	N 18 W 15	S 66 W 29	N 02 E 47	N 15 E 55	S 06 W 30
15	S 18 E 31	N 11 E 39	S 06 W 41	S 10 W 52	N 17 W 60	N 20 E 37	N 55 W 17	N 08 W 12	S 36 W 19	N 10 E 42	N 15 E 54	S 05 W 35
20	S 04 E 34	N 30 W 42	S 08 W 39	S 20 E 70	N 32 W 47	N 32 W 23	N 44 W 18	N 46 W 21	S 71 W 15	N 29 W 16	N 15 E 34	S 05 E 33
	3 3^{48} a	**3** 7^{48} a	**3** 11^{48} a	**3** 3^{59} p	**3** 7^{48} p	**3** 11^{50} p	**15** 3^{45} a	**15** 7^{48} a	**15** 11^{45} a	**15** 3^{48} p	**15** 7^{48} p	**15** 11^{45} p
$2^1/_2$	N 09 W 36	N 22 E 72	N 11 W 19	S 45 W 6	N 54 E 72	S 02 W 26	N 04 E 20	N 22 W 9	S 35 E 29	N 74 E 40	S 19 W 16	N 90 E 56
5	N 09 W 36	N 25 E 60	S 29 E 16	S 74 E 42	N 30 E 40	S 08 W 23	N 60 W 7	N 12 W 13	N 79 E 33	N 64 E 32	S 01 E 29	S 51 E 40
10	S 01 W 50	S 04 W 20	S 14 E 48	S 11 E 89	N 18 W 31	N 58 E 32	N 80 W 9	S 08 W 10	S 03 W 25	N 22 W 25	S 10 W 39	S 08 E 29
15	S 01 W 48	S 10 W 24	S 10 W 98	S 04 E 80	N 27 W 33	N 56 E 26	S 58 W 7	S 03 E 16	S 19 E 32	S 80 W 27	S 10 W 51	S 10 E 42
20	S 01 W 74	S 21 W 20	S 26 W 80	S 04 E 71	N 28 W 20	N 47 E 25	S 02 E 10	S 03 E 17	S 09 W 36	N 49 W 33	S 20 W 52	S 18 W 53

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende March 16—April 8 1913.

Meter	16 3^{44} a	16 7^{43} a	16 11^{48} a	16 3^{50} p	16 7^{45} p	16 11^{44} p
2½	N 47 E 68	S 04 W 13	N 42 E 59	N 24 E 108	N 34 E 108	S 08 W 64
5	N 89 E 52	S 04 W 13	N 33 E 79	N 13 E 113	N 03 W 86	S 17 W 58
10	S 84 W 26	S 50 W 31	S 46 W 34	N 14 E 117	N 10 W 50	S 15 W 64
15	S 76 W 31	S 34 W 24	S 30 W 46	N 11 W 81	N 60 W 40	S 40 W 43
20	S 67 W 20	S 01 W 29	S 66 W 51	N 30 W 46	N 04 E 62	S 22 W 52
	17 3^{45} a	**17** 7^{45} a	**17** 11^{44} a	**17** 3^{57} p	**17** 7^{48} p	**17** 11^{53} p
2½	S 22 E 85	S 33 E 78	S 49 E 64	S 60 E 13	N 32 W 84	N 58 E 46
5	S 22 E 86	S 02 E 78	S 27 E 57	S 10 W 18	N 32 W112	N 58 E 20
10	S 10 W 88	S 04 W 75	S 05 E 65	S 06 E 8	N 24 E 119	N 51 E 16
15	S 10 W 85	S 03 E 71	S 35 W 45	S 07 E 8	N 50 E 82	N 39 W 25
20	S 10 W 81	S 04 W 66	S 17 W 54	N 11 W 6	S 50 E 34	N 40 W 24
	18 3^{40} a	**18** 7^{45} a	**18** 11^{48} a	**18** 3^{44} p	**18** 7^{46} p	**18** 11^{45} p
2½	N 33 W 50	S 33 E 23	S 11 E 176	S 06 E 124	N 79 E 25	N 15 E 42
5	N 30 E 37	N 87 E 32	S 01 W189	S 01 E 163	S 85 E 33	N 06 E 36
10	N 05 E 43	N 16 W 48	S 02 W141	S 02 E 144	S 53 E 32	N 13 E 47
15	N 17 E 39	N 16 W 35	S 24 E 120	S 01 E 134	S 41 E 23	N 23 E 46
20	N 17 E 23	N 10 W 42	S 06 E 106	S 18 W109	S 63 W 23	N 23 E 33
	19 3^{52} a	**19** 7^{44} a	**19** 11^{44} a	**19** 3^{46} p	**19** 7^{47} p	**19** 11^{48} p
2½	N 80 E 50	N 45 E 76	N 52 E 70	S 30 E 59	N 10 E 124	N 11 E 151
5	S 36 E 32	N 30 E 58	N 49 E 67	S 20 W 53	N 16 E 138	N 11 E 157
10	S 07 E 36	N 14 E 82	N 25 E 33	S 35 W 31	N 16 E 156	N 11 E 166
15	S 76 W 19	N 53	N 43 W 36	S 25 W 20	N 16 E 112	N 11 E 123
20	N 64 W 22	N 19 W 36	N 32 W 29	S 42 W 17	N 03 E 117	N 11 E 117
	20 3^{46} a	**20** 7^{44} a	**20** 11^{44} a	**20** 3^{44} p	**20** 7^{45} p	**20** 11^{45} p
2½	S 46 E 55	E 34	S 58 E 36	S 33 E 94	N 35 E 85	N 35 E 48
5	S 30 E 88	S 19 E 58	S 17 E 59	S 02 E 92	N 35 E 76	N 15 E 67
10	S 22 W 45	S 08 E 51	S 07 E 68	S 102	N 26 E 56	N 03 W 33
15	S 17 W 72	S 10 W 47	S 06 W 83	S 17 W101	N 25 E 52	N 23 W 28
20	S 06 W 73	S 09 W 48	S 06 W 83	S 07 E 91	W 60	N 28 W 19
	21 3^{50} a	**21** 7^{46} a	**21** 11^{44} a	**21** 3^{44} p	**21** 7^{44} p	**21** 11^{48} p
2½	N 26 W 16	N 37 E 80	N 15 E 64	S 50 W 18	N 55 E 34	N 22 E 53
5	S 34 W 25	N 27 E 93	N 25 E 54	S 30 E 33	N 84 W 11	N 22 E 58
10	S 45 W 21	N 12 E 71	N 15 E 56	S 30 E 32	N 61 W 7	N 56
15	S 45 W 20	N 16 W 57	N 48 W 25	S 02 W 38	N 09 W 13	N 14 W 32
20	S 52 E 25	N 20 W 56	N 01 W 19	S 13 W 30	N 20 W 13	N 16 W 25
	22 3^{45} a	**22** 7^{45} a	**22** 11^{48} a	**22** 3^{44} p	**22** 7^{44} p	**22** 11^{46} p
2½	N 22 E 33	N 35 E 59	N 40 E 59	S 9	S 40 W 7	N 11 E 72
5	N 21 E 21	N 26 W 36	N 71 E 45	S 33	S 50 W 6	N 11 E 79
10	N 22 E 14	N 07 W 45	N 70 E 34	S 39	S 43 E 27	N 11 E 80
15	S 18 W 20	S 30 W 29	S 70 E 23	S 51	S 47 E 38	N 13 W 47
20	S 27 W 30	S 88 W 29	S 15 W 22	S 56	S 32 E 42	N 32 W 18
	23 3^{46} a	**23** 7^{44} a	**23** 11^{45} a	**23** 3^{46} p	**23** 7^{44} p	**23** 11^{48} p
2½	N 03 W 25	N 26 W 80	N 21 E 79	N 22 W 14	N 11 E 29	N 09 W124
5	N 19 E 34	N 14 E 88	N 21 E 83	N 02 W 22	N 11 E 13	N 14 E 138
10	S 16 E 18	N 40 E 19	N 09 E 84	S 04 W 12	S 20 W 29	N 01 W157
15	S 10 E 30	S 10 W 34	N 51 W 34	S 05 E 42	S 10 W 40	N 28 W101
20	S 01 E 32	S 10 W 30	N 15 W 28	S 16 E 44	S 10 W 48	N 08 E 90
	24 3^{45} a	**24** 7^{44} a	**24** 11^{46} a	**24** 3^{48} p	**24** 7^{47} p	**24** 11^{45} p
2½	N 24 E 53	S 06 E 14	N 30 E 40	S 26 E 93	S 26 E 67	S 21 E 33
5	N 03 W 27	S 31 E 19	N 10 E 45	S 15 W 89	S 26 E 77	N 29 E 20
10	N 03 W 23	S 17 E 45	S 24 W 14	S 07 E 89	S 03 E 58	N 24 E 25
15	N 29 W 13	S 45	S 08 W 21	S 13 E 84	S 16 E 53	N 04 E 28
20	S 21 W 24	S 47	S 04 W 26	S 20 E 73	S 01 E 49	N 09 W 23
	25 3^{45} a	**25** 7^{42} a	**25** 11^{46} a	**25** 4^{01} p	**25** 7^{44} p	**25** 11^{45} p
2½	S 20 E 33	S 08 E 24	N 28 W 66	N 22 E 43	N 03 W 25	N 11 E 25
5	S 32	S 18 E 22	N 18 W 71	N 09 W 47	N 13 W 53	N 46
10	N 09 E 20	S 14 E 33	N 50 W 65	N 23 E 45	N 34 W 40	N 01 E 47
15	S 10 E 14	S 60 E 6	N 39 W 65	N 21 W 39	N 68 W 39	N 01 E 29
20	N 52 W 17	N 85 E 8	N 53 W 40	N 65 W 43	S 80 W 43	N 16 E 20
	26 3^{46} a	**26** 7^{45} a	**26** 11^{46} a	**26** 3^{44} p	**26** 7^{45} p	**26** 11^{45} p
2½	N 19 E 33	N 33 W 13	N 01 W 22	N 11 E 59	N 05 E 13	N 11 E 33
5	N 09 E 43	N 43 W 16	N 01 W 32	N 11 E 58	N 05 E 16	N 01 E 28
10	N 10 E 19	S 45 W 13	S 22 W 17	N 11 E 53	S 15 E 11	S 10 W 20
15	N 17 W 6	S 07 W 40	S 04 E 20	N 11 W 12	S 05 E 25	S 01 W 22
20	S 17 W 19	S 07 W 38	S 05 E 17	N 40 W 11	S 05 E 24	S 01 W 22
	27 3^{48} a	**27** 7^{45} a	**27** 11^{48} a	**27** 3^{50} p	**27** 7^{44} p	**27** 11^{48} p
2½	N 21 W 34	N 23 W 14	N 19 E 16	N 01 E 70	N 15 E 40	N 35 W 29
5	N 20 E 43	N 19 E 19	N 29 E 25	N 11 E 90	N 05 E 50	N 16 E 40
10	N 09 E 22	S 31 E 19	S 10 W 20	N 05 W 90	N 16 E 48	N 04 E 13
15	N 07 W 9	S 01 E 21	S 08 W 20	N 22 W 83	N 16 E 25	N 34 W 7
20	N 66 W 17	S 09 W 21	S 02 E 16	N 04 E 36	S 77 W 7	N 28 E 5

	28 3^{45} a	**28** 7^{44} a	**28** 11^{44} a	**28** 3^{45} p	**28** 7^{48} p	**28** 11^{44} p
2½	N 15 W 59	N 13 W 44	N 33 W 76	N 15 E 76	N 21 W 53	N 12 W 70
5	N 28 E 79	N 07 E 76	N 09 E 90	N 19 E 92	N 15 E 56	N 09 E 90
10	N 28 E 85	N 24 E 73	N 09 E 92	N 09 W 88	N 07 W 66	N 19 E 88
15	N 26 E 51	N 02 W 25	N 03 W 82	N 10 E 108	N 16 E 44	N 08 E 75
20	N 48 W 24	N 18 W 29	N 27 W 41	N 03 E 96	N 36 E 9	S 57 W 9
	29 3^{48} a	**29** 7^{44} a	**29** 11^{44} a	**29** 3^{44} p	**29** 7^{46} p	**29** 11^{45} p
2½	N 01 W 94	N 11 W 71	S 45 E 16	N 14 E 59	N 31 E 93	N 27 E 16
5	N 19 E 96	N 09 E 93	N 70 E 13	N 27 E 90	N 21 E 95	N 37 E 36
10	N 06 E 91	N 20 E 86	N 10 W 25	N 19 E 88	N 23 W 84	N 06 E 14
15	N 05 E 111	N 03 E 85	N 16 W 32	N 19 E 84	N 12 W 74	N 03 W 14
20	N 19 W 72	N 04 W 81	N 10 W 38	N 25 E 80	N 13 W 65	N 23 W 32
	30 3^{45} a	**30** 7^{44} a	**30** 11^{50} a	**30** 3^{44} p	**30** 7^{48} p	**30** 11^{44} p
2½	N 08 E 50	N 11 W 84	S 43 E 16	N 09 E 48	N 05 W 91	N 11 W 11
5	N 08 E 54	N 06 E 76	N 56 E 20	N 40 E 79	N 16 E 93	N 39 E 13
10	N 08 E 78	N 08 E 119	N 74 E 29	N 29 E 76	N 16 E 88	N 24 E 26
15	N 19 E 79	N 09 E 79	N 42 W 23	N 88 W 11	N 04 E 86	N 04 E 25
20	N 16 W 21	N 09 E 72	S 05 E 26	N 54 W 18	N 22 W 81	N 04 E 30
	31 3^{45} a	**31** 7^{47} a	**31** 11^{45} a	**31** 3^{48} p	**31** 7^{44} p	**31** 11^{49} p
2½	N 23 W 19	N 15 E 70	S 12 E 7	S 11 W 9	N 21 E 55	N 29
5	N 23 W 25	N 25 E 94	N 28 E 13	S 19 E 9	N 31 E 50	N 10 E 33
10	N 12 W 22	N 02 E 69	N 08 E 25	S 34 E 32	N 20 E 29	N 23
15	S 23 E 15	N 04 E 71	S 23 E 17	S 18 E 35	N 06 E 16	N 47 E 7
20	S 14 E 26	N 10 W 43	S 17 W 43	S 19 E 65	N 03 E 11	S 20 W 13
	1 3^{44} a	**1** 7^{44} a	**1** 11^{45} a	**1** 3^{46} p	**1** 7^{44} p	**1** 11^{45} p
2½	S 38 E 7	N 05 E 74	N 08 E 70	S 13 E 9	N 11 E 34	N 25 E 29
5	N 12 E 9	N 10 E 74	N 08 E 67	S 07 W 21	N 21 E 35	N 15 E 33
10	S 17 E 7	N 16 E 72	N 10 E 55	S 17 W 26	N 21 W 11	N 05 E 31
15	S 13 W 20	N 03 E 33	N 30 W 31	S 15 W 52	N 08 E 5	N 07 W 23
20	S 08 E 22	N 03 E 32	N 39 W 10	S 15 W 58	N 61 W 15	N 84 W 15
	2 3^{45} a	**2** 7^{46} a	**2** 11^{48} a	**2** 3^{44} p	**2** 7^{40} p	**2** 11^{50} p
2½	S 44 W 11	N 06 E 46	N 18 E 59	N 10 W 30	N 19 W 37	N 10 W 40
5	S 82 E 16	N 11 E 43	N 18 E 65	N 16 W 6	N 29 W 43	N 10 W 39
10	S 21 E 16	N 08 W 17	N 12 E 38	N 35 W 5	S 80 W 12	N 01 E 34
15	S 04 W 25	N 33 W 17	N 10 W 24	S 05 E 20	S 38 E 19	N 12 W 11
20	S 07 E 35	N 23 W 9	N 52 W 9	S 10 E 30	S 42 E 20	N 49 W 5
	3 3^{45} a	**3** 7^{45} a	**3** 11^{44} a			
2½	N 11 E 16	N 27	N 04 E 46			
5	N 19 W 16	N 49	N 04 E 53			
10	N 19 W 16	N 48 W 35	N 04 E 55			
15	S 60 W 13	N 64 W 27	N 09 E 24			
20	S 39 W 13	N 57 W 17	N 48 W 15			
	4 3^{47} a	**4** 7^{48} a	**4** 11^{50} a	**4** 3^{47} p	**4** 7^{50} p	**4** 11^{48} p
2½	N 52 W 46	N 50 W 36	N 10 W 91	N 71 W 11	N 03 W 11	N 32 W 91
5	N 01 W 53	N 31	N 04 E 78	N 14 W 33	N 17 W 20	N 09 E 91
10	N 01 W 37	N 06 E 32	N 29 E 72	N 31 E 28	N 46 E 21	N 09 E 87
15	N 21 W 16	S 60 E 6	N 02 E 33	S 04 E 13	S 14 W 30	N 36 W 25
20	N 5	S 63 E 5	N 47 W 9	S 22 E 12	S 06 E 30	N 30 W 19
	5 3^{48} a	**5** 7^{46} a	**5** 11^{46} a	**5** 3^{48} p	**5** 7^{46} p	**5** 11^{45} p
2½	N 07 W 32	N 09 W 66	N 10 W 81	N 13 W 16	N 21 W 16	N 15 W 60
5	N 24 E 47	N 01 E 77	N 06 E 58	N 01 W 9	N 06 E 36	N 15 W 58
10	N 24 E 46	N 20 E 38	N 05 W 84	N 27 E 13	N 27 E 32	N 38 W 39
15	S 07 W 25	N 10	N 01 E 50	S 37 E 23	S 26 E 11	N 58 W 10
20	S 06 W 27	S 35 E 3	N 10 E 29	S 04 E 20	S 16 E 13	N 72 W 7
	6 3^{45} a	**6** 7^{46} a	**6** 11^{45} a	**6** 3^{46} p	**6** 7^{48} p	**6** 11^{45} p
2½	S 17 W 11	N 34 W 25	N 17 W 44	N 25 E 11	N 54 E 11	N 61 E 25
5	S 47 W 13	N 24 W 35	N 20 E 30	N 55 E 8	S 38 E 20	S 06 W 13
10	S 77 W 13	N 23 E 17	N 16 E 31	N 60 E 16	S 26 E 21	N 40 E 20
15	S 06 E 39	S 12 W 23	S 28 E 7	S 02 E 39	S 28 E 31	N 42 W 16
20	S 07 E 31	S 06 W 19	S 30 W 3	S 08 W 36	S 12 W 42	N 60 E 24
	7 3^{46} a	**7** 7^{46} a	**7** 11^{40} a	**7** 3^{44} p	**7** 7^{42} p	**7** 11^{55} p
2½	S 02 W 16	N 09 E 30	N 18 E 27	N 17 E 27	N 14 E 45	N 10 W 68
5	S 38 E 29	N 30 E 25	N 06 E 41	N 55 E 25	N 04 E 43	N 30 W 73
10	S 73 W 11	N 34 E 42	N 73	N 12 W 21	N 03 E 52	N 20 W 74
15	N 17 W 28	N 20 E 37	N 01 W 91	N 18 W 29	N 05 E 40	N 30 W 80
20	N 08 W 33	N 08 W 45	N 18 E 19	N 33 W 18	N 11 W 18	N 43 W 73
	8 3^{47} a	**8** 7^{44} a	**8** 11^{43} a	**8** 3^{53} p	**8** 7^{45} p	**8** 11^{46} p
2½	N 41 E 16	N 16 W 6	N 10 E 16	E 6	S 73 E 6	N 09 E 30
5	N 51 E 20	S 39 E 25	N 33 W 3	S 89 E 6	S 78 E 6	N 01 W 23
10	N 20 W 27	S 24 E 34	N 05 W 14	N 81 E 7	N 82 E 9	N 20
15	N 20 W 29	S 47 E 17	S 22 W 8	S 89 E 7	S 23 E 13	S 04 E 10
20	S 16 E 19	S 06 E 21	N 26 W 6	S 55 E 7	S 17 E 13	S 66 W 10

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende April 9—May 2 1913.

Meter	9 3⁴⁵ a	9 7⁴⁵ a	9 11⁴⁶ a	9 4³⁶ p	9 7⁴⁶ p	9 11⁴⁵ p	21 3⁴⁵ a	21 7⁴⁸ a	21 11⁵⁰ a	21 3⁴¹ p	21 7⁴⁷ p	21 11⁵⁰ p
2½	N 34 E 21	N 41 E 9	N 21 E 21	N 33 E 34	S 79 E 30	S 51 E 18	N 18 E 16	N 17 E 53	N 24 E 77	N 10 E 68	N 05 E 48	N 20 W 80
5	N 24 E 20	N 19 W 9	N 21 E 23	N 29 E 21	N 05 E 27	N 20 E 25	N 82 W 13	N 14 W 56	N 30 E 77	N 04 E 35	N 31	N 20 W 68
10	N 24 E 12	N 04 W 9	N 21 E 30	N 01 E 22	N 07 E 7	S 48 W 17	S 28 W 21	N 21 W 11	N 55 E 65	S 23 W 18	S 22 W 28	N 20 W 36
15	S 16 W 12	S 09 E 21	S 04 E 11	S 19 W 11	S 09 W 30	S 40 W 26	S 12 W 32	N 07 W 11	N 18 E 88	S 03 W 10	S 09 W 31	N 20 W 31
20	S 14 W 17	S 24 E 20	N 63 W 7	S 31 W 13	S 10 E 23	S 18 W 25	S 05 E 31	N 14 W 11	N 07 W 65	S 07 E 12	S 04 W 21	N 03 W 19
	10 3⁴⁵ a	**10** 7⁴⁴ a	**10** 11⁴⁰ a	**10** 4⁰⁶ p	**10** 7⁴⁹ p	**10** 11⁴⁸ p	**22** 3⁴⁵ a	**22** 7⁴⁷ a	**22** 11⁵² a	**22** 3⁴⁸ p	**22** 7⁴⁸ p	**22** 11⁴⁷ p
2½	N 08 W 13	S 11	S 14 W 36	S 02 E 72	S 16 E 86	S 24 E 96	N 15 W 31	N 02 W 23	N 20 W 37	N 11 W 40	N 17 E 30	N 15 E 89
5	N 33 E 16	S 19 W 34	S 04 W 10	S 15 E 72	S 05 E 83	S 02 W137	N 36 W 13	N 12 W 18	N 10 W 39	N 01 W 35	N 03 E 20	N 15 E 83
10	S 16 E 21	S 48	S 20 E 36	S 26 W 16	S 10 W 24	S 02 W 90	S 05 E 19	S 26 E 44	N 26 W 89	N 27 E 13	S 11 E 12	N 05 E 60
15	S 07 E 33	S 01 E 45	S 05 E 15	S 15	N 80 E 7	S 75 E 49	S 05 W 30	S 06 W 26	N 15 W 79	N 37 W 8	S 09 W 17	N 12 W 33
20	S 03 E 31	S 05 W 43	S 07 W 19	S 05 E 26	N 24 E 8	N 15 W 43	S 11 E 22	S 06 W 16	N 02 E 49	S 35 W 10	S 04 W 19	N 10 W 24
	11 3⁴⁸ a	**11** 7⁴⁸ a	**11** 11³⁵ a	**11** 4⁰² p	**11** 7⁴⁹ p	**11** 11⁴⁸ p	**23** 3⁵⁰ a	**23** 7⁴⁶ a	**23** 11⁵⁰ a	**23** 3⁴⁸ p	**23** 7⁴⁸ p	**23** 11⁴⁶ p
2½	S 21 E 151	S 02 E 124	S 31 E 53	S 11 E 29	S 28 E 25	N 34 E 48	N 11 W 57	N 10 E 43	N 20 W 85	N 07 E 59	N 30 W 25	N 11 E 61
5	S 21 E 157	S 04 W126	S 25 E 52	S 08 E 30	S 88 E 16	N 14 E 60	N 11 W 18	N 80 W 8	N 20 W 64	N 23 E 31	N 09 W 15	N 12 E 56
10	S 21 E 141	S 14 E 132	S 30 E 42	S 32 W 22	N 80 E 11	N 10 E 60	S 45 W 8	S 04 E 24	N 50 W 5	N 43 W 4	S 10 W 30	N 63 W 14
15	S 07 E 108	S 02 E 103	S 64 W 9	S 50 W 20	N 06 W 27	N 01 W 85	S 60 W 7	S 06 W 29	N 08 E 24	N 88 W 7	S 20 W 30	N 17 W 19
20	S 04 E 97	S 07 E 134	N 13 W 40	N 04 E 27	N 06 E 34	N 07 W 68	S 39 E 6	S 10 E 30	N 08 E 23	N 43 W 4	S 08 E 26	N 01 W 21
	12 3⁴⁵ a	**12** 7⁴⁸ a	**12** 11⁴⁰ a	**12** 3⁴³ p	**12** 7⁴⁵ p	**12** 11⁴⁸ p	**24** 3⁴⁶ a	**24** 7⁴⁶ a	**24** 11⁵⁶ a	**24** 3⁴⁶ p	**24** 7⁵¹ p	**24** 11⁴⁹ p
2½	N 15 E 36	S 05 E 29	S 10 E 84	S 12 E 70	S 10 W 57	S 20 E 48	N 12 W 48	N 70 W 13	N 03 W 31	N 16 W 46	N 07 W 30	N 30 W 23
5	N 20 E 46	S 60 W 23	S 13 E 76	S 20 W 63	S 16 E 56	S 20 E 60	N 09 E 41	S 40 W 5	N 03 W 21	N 05 E 45	N 40 E 4	N 22 E 25
10	N 31 E 49	S 84 W 10	S 10 E 66	S 24 W 52	S 16 W 46	S 10 E 57	N 10 E 20	S 05 E 20	N 78 W 4	N 27 E 12	S 09 E 21	S 23 E 13
15	N 14 E 72	S 81 W 30	S 16 E 65	S 36 E 71	S 27 E 54	S 08 E 64	N 10 E 29	S 05 W 27	N 88 W 4	S 87 W 3	S 02 W 21	S 19 W 9
20	N 10 W 88	N 79 W 20	S 04 W 54	S 08 W 46	S 02 W 54	S 08 E 57	N 22 W 14	S 10 W 28	S 79 W 5	N 59 W 6	S 04 E 19	S 43 W 8
	13 3⁵⁰ a	**13** 7⁴⁴ a	**13** 11⁴⁷ a	**13** 3⁴⁷ p	**13** 7⁴⁵ p	**13** 11⁴⁵ p	**25** 3⁴⁵ a	**25** 7⁴⁷ a	**25** 11³⁸ a	**25** 3⁵⁸ p	**25** 7⁵² p	**25** 11⁴⁸ p
2½	N 09 W 25	N 05 E 24	S 15 W 13	N 07 E 43	N 12 E 44	N 03 W 11	N 12 E 46	N 04 W 31	N 22 E 20	N 06 W 55	N 21 W 37	N 12 W 13
5	N 09 W 25	N 19 W 20	N 57 W 16	N 02 W 61	N 12 E 44	S 87 W 13	N 03 E 45	N 09 W 20	N 46 E 13	N 44	N 21 W 31	N 02 W 46
10	N 44 E 28	N 20 W 21	N 80 E 8	N 03 E 59	N 01 E 42	S 87 W 13	N 01 E 11	S 14 E 22	S 24 E 20	N 11 E 24	N 20 E 6	N 9
15	N 40 E 30	N 13 W 18	N 60 W 16	N 14 E 57	N 04 W 41	N 81 W 13	N 01 E 11	S 09 E 32	S 14 E 20	N 18 E 20	N 13 W 5	S 11 E 15
20	N 40 E 31	N 04 W 18	N 30 W 18	N 02 E 38	N 10 W 35	N 53 E 12	N 14 W 13	S 05 W 20	S 19 W 13	N 09 W 15	N 66 W 6	S 70 W 11
	14 3⁴⁴ a	**14** 7⁴⁴ a	**14** 11⁴⁸ a	**14** 4¹⁰ p	**14** 7⁴⁹ p	**14** 11⁴⁶ p	**26** 3⁴⁶ a	**26** 7⁴⁸ a	**26** 11⁵² a	**26** 3⁴⁸ p	**26** 7⁵¹ p	**26** 11⁴⁴ p
2½	N 25 E 27	N 08 W 42	S 01 E 13	N 05 E 55	N 10 W 96	N 08 W 16	N 06 E 84	N 01 E 42	S 22 W 13	N 26 E 66	N 20 W 66	N 05 E 35
5	N 15 E 25	N 08 W 44	S 21 E 18	N 02 W 58	N 05 W 60	N 59 E 21	N 04 W 85	N 20 W 34	S 72 W 11	N 16 E 62	N 10 W 73	N 05 E 27
10	N 05 E 29	N 08 W 42	S 31 E 21	N 12 W 67	N 06 E 66	N 21 E 12	N 04 W 37	N 12 W 18	S 06 W 70	N 26 W 16	N 07 E 55	S 50 W 14
15	N 05 E 31	N 04 E 32	S 30 W 10	N 05 E 56	N 79	S 45 W 17	N 24 W 32	N 25 W 3	S 05 E 93	N 48 W 4	N 04 E 21	S 04 E 17
20	N 07 W 28	N 06 W 34	S 35 W 17	N 10 E 55	N 19 W 69	S 60 W 21	N 52 W 24	N 23 W 7	S 04 E 52	N 54 W 12	N 26 W 24	S 06 W 19
	15 3⁴⁸ a	**15** 7⁴⁶ a	**15** 11⁵⁰ a	**15** 3⁵⁰ p	**15** 7⁵⁰ p	**15** 11⁵⁰ p	**27** 3⁴⁸ a	**27** 7⁴⁵ a	**27** 11³⁰ a	**27** 3⁴⁵ p	**27** 7⁴⁶ p	**27** 11⁴⁶ p
2½	N 32 E 42	N 74	N 82 E 26	N 01 W 38	N 03 W 79	N 42	N 15 E 88	N 16 E 73	N 20 W 6	N 20 W 80	N 02 E 69	N 08 W 13
5	N 35	N 01 E 76	S 53 W 20	N 08 E 50	N 10 E 77	N 21 E 44	N 05 E 85	N 78	N 52 W 20	N 05 W 79	N 17 E 86	N 03 W 20
10	N 20 W 42	N 05 W 77	S 21 E 24	S 14 E 25	N 10 E 84	N 23 E 36	N 05 E 57	N 20 W 20	S 56 E 13	N 64 W 6	N 10 W 54	N 13 E 20
15	N 11 W 31	N 04 W 75	S 20 W 38	S 09 E 48	N 05 E 23	S 14 E 30	N 04 E 46	N 76 W 10	S 48	S 09 W 9	N 10 W 20	S 17 W 30
20	N 16 E 19	N 44	S 09 E 27	S 12 W 35	N 16 W 20	S 08 E 59	N 13 W 40	N 08 W 19	S 06 W 40	S 10 E 11	N 20 W 20	S 07 W 34
	16 3⁴⁶ a	**16** 7⁴⁴ a	**16** 11³⁶ a	**16** 3⁴⁸ p	**16** 7⁵⁰ p	**16** 11⁴⁸ p	**28** 3⁴⁶ a	**28** 7⁴⁶ a	**28** 11³⁶ a	**28** 3⁴⁵ p	**28** 7⁵¹ p	**28** 11⁴² p
2½	N 10 W 67	N 10 W108	N 05 E 84	N 01 W 36	N 108	N 05 E 84	N 08 E 88	N 05 E 83	N 40 W 23	N 14 W 64	N 07 W 86	N 04 E 57
5	N 10 W 77	N 10 E 119	N 09 E 69	N 04 W 46	N 11 E 146	N 06 W107	N 08 E 74	N 05 E 71	S 46 W 6	N 04 W 63	N 07 W 92	N 14 E 42
10	N 02 E 69	N 02 W115	N 04 E 77	S 26 E 15	N 19 E 146	N 06 W108	N 08 E 54	N 08 W 87	S 34 E 12	N 57 W 11	N 01 W 68	N 03 E 21
15	S 17 E 64	N 02 W112	N 35 E 9	S 08 E 35	N 08 E 119	N 13 E 103	N 08 E 28	N 29 W 24	S 11 E 62	S 16 W 18	N 09 W 38	N 10
20	S 09 W 72	N 16 E 70	S 10 W 49	S 21 W 47	N 06 E 78	N 12 W 94	N 08 E 27	N 02 E 28	S 06 E 39	S 40 E 8	N 17 W 31	N 15 W 3
	17 3⁴⁵ a	**17** 7⁴⁸ a	**17** 11⁴⁴ a	**17** 3⁵⁸ p	**17** 7⁵¹ p	**17** 11⁵⁰ p	**29** 3⁵⁰ a	**29** 7⁴⁶ a	**29** 11⁴⁵ a	**29** 4¹⁰ p	**29** 7⁴⁴ p	**29** 11⁴⁵ p
2½	N 25 E 67	N 15 W 84	N 14 E 31	S 13 E 19	N 32 E 55	N 08 W 16	N 15 W 84	N 08 W 80	N 09 E 21	N 05 E 21	N 15 E 83	N 09 E 46
5	N 25 E 66	N 04 W 83	N 12 E 27	S 05 W 18	N 25 E 52	N 08 W 25	N 26 E 90	N 02 W 91	N 32 W 8	N 25 E 26	N 15 E 78	N 09 E 48
10	N 15 E 67	N 08 E 100	S 41 E 14	S 15 E 63	S 88 W 11	N 33 W 28	N 41 W 17	N 75	S 05 E 14	S 07 W 24	N 03 E 33	N 42 E 40
15	S 24 W 55	N 78	S 09 E 72	S 18 E 75	N 13 W 23	N 50 E 20	N 41 W 16	N 08 E 46	S 12 W 30	S 01 W 27	N 21 W 29	N 20 W 20
20	S 24 W 49	N 01 E 19	S 02 W 67	S 07 W 84	N 19	S 73 E 12	N 55 W 11	N 08 E 37	S 14 W 34	S 11 W 30	N 02 E 29	N 23 W 17
	18 3⁴⁴ a	**18** 7⁴⁴ a	**18** 11⁴⁴ a	**18** 3⁴⁶ p	**18** 7⁵² p	**18** 11⁴⁵ p	**30** 3⁴⁴ a	**30** 7⁴⁶ a	**30** 11⁴⁹ a	**30** 3⁴⁸ p	**30** 7⁴⁵ p	**30** 11⁴⁸ p
2½	N 42 E 9	N 24 E 46	N 25 E 32	S 60 W 6	N 15 E 21	N 10 W 33	N 05 E 51	N 05 E 108	N 21 W 42	N 08 W 21	N 10 E 70	N 33 W 66
5	0	N 19 E 47	N 20 E 34	S 40 E 13	N 40 E 26	N 36 E 37	N 12 E 45	N 04 W 96	N 11 W 34	N 14 W 13	N 10 E 58	N 33 W 62
10	S 31 E 11	N 10 E 48	N 07 E 45	S 20 E 31	S 16 W 7	N 08 E 33	S 12 W 32	N 09 E 90	N 11 E 25	S 21 W 42	N 10 E 37	N 04 E 28
15	S 01 E 37	N 12 W 20	N 05 E 17	S 07 E 36	N 78 W 6	N 09 W 12	S 20 W 28	N 02 E 59	S 10 E 12	S 07 W 65	N 71 W 10	N 60 E 11
20	S 01 E 40	N 04 E 23	S 82 W 12	S 02 E 28	N 04 W 13	N 03 E 9	S 07 E 33	N 02 E 51	S 17 E 12	S 04 E 45	N 39 W 10	N 50 E 2
	19 3⁵² a	**19** 7⁴⁶ a	**19** 11³⁸ a	**19** 3⁴⁸ p	**19** 7⁵⁷ p	**19** 11⁴⁹ p	**1** 3⁴⁶ a	**1** 7⁴⁸ a	**1** 11⁴⁵ a	**1** 3⁴⁸ p	**1** 7⁴⁴ p	**1** 11⁴³ p
2½	N 01 W 41	N 03 E 108	N 11 W113	N 12 E 69	N 02 E 80	N 18 W 29	N 04 E 43	N 96	N 08 W 79	N 73 W 18	N 22 E 55	N 04 E 70
5	N 20 E 52	N 17 E 124	N 24 W160	N 10 E 75	N 95	N 12 E 60	N 06 W 26	N 07 E 86	N 03 W 86	S 35 W 4	N 16 E 56	N 14 E 50
10	S 27 E 56	N 06 E 96	N 11 E 108	N 70 W 12	N 15 W 22	S 10 W 28	S 01 E 40	N 13 W 39	N 10 E 65	S 05 W 62	S 84 W 13	N 02 E 23
15	S 23 W 49	N 02 E 57	N 20 E 110	S 12 W 23	S 16 E 38	S 03 W 42	S 10 W 46	N 01 W 39	N 30 W 22	S 02 W 61	S 38 W 12	S 44 W 2
20	S 58	N 22 W 44	N 15 W 62	S 12 W 29	S 07 W 28	S 17 E 57	S 07 W 39	N 10 W 28	S 10 W 6	S 04 W 66	N 53 W 13	S 45 W 10
	20 3⁴⁶ a	**20** 7⁵⁰ a	**20** 11⁴⁹ a	**20** 3⁴⁸ p	**20** 7⁴⁸ p	**20** 11⁴⁸ p	**2** 3⁴⁵ a	**2** 7⁴⁷ a	**2** 1²² p	**2** 4⁰⁷ p	**2** 7⁴⁶ p	**2** 11⁴³ p
2½	N 08 W 33	N 15 E 96	N 78	S 40 W 19	N 14 E 7	N 15 E 57	N 02 W 43	N 03 E 102	N 10 W 56	N 13 W 38	N 07 E 62	N 05 E 50
5	N 02 E 15	N 09 E 81	N 15 E 78	S 26 E 30	N 34 E 14	N 06 W 47	N 12 W 24	N 10 E 85	N 04 E 69	N 03 W 37	N 23 W 20	N 13 E 27
10	S 10 W 35	N 03 E 17	N 26 E 23	S 84	N 70 E 16	N 16 E 41	S 09 E 20	N 10 E 55	N 31	S 20	S 27 W 13	N 26 W 15
15	S 19 E 59	N 19 W 24	N 09 E 15	S 10 E 86	N 29 W 9	N 26 W 28	S 06 E 22	N 10 W 57	N 17 W 6	S 01 W 33	S 03 W 18	N 16 W 7
20	S 39 E 38	N 16 W 20	N 65 W 11	S 10 E 87	N 15 W 13	N 19 E 35	S 09 E 26	N 03 W 35	N 49 W 2	S 01 W 39	S 12 E 11	N 69 W 4

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende May 3—26 1913.

Meter	3 3^{53} a	3 7^{36} a	3 11^{46} a	3 3^{41} p	3 7^{44} p	4 12^{04} a	15 3^{48} a	15 7^{46} a	15 11^{12} a	15 3^{46} p	15 7^{15} p	15 11^{45} p
2½	N 05 W 36	N 20 W 66	N 15 W 59	N 10 W 36	N 16 W 29	N 11 W 25	N 19 W 40	N 21 E 91	N 31 W 11	S 30 W 9	N 01 W 64	N 27 E 20
5	N 16 W 38	N 20 W 63	N 60	N 15 W 22	N 16 W 29	N 09 E 40	N 03 E 28	N 21 E 68	S 79 W 9	S 16	N 06 W 65	N 08 W 23
10	S 07 W 14	S 16 W 11	N 12 W 22	S 06 W 15	S 07 W 21	N 09 E 13	S 18 W 21	N 21 E 66	S 14 W 19	S 53	N 14 E 10	N 72 W 20
15	S 03 W 30	S 36 E 10	N 10 E 14	S 16 E 15	S 03 W 22	N 09 E 10	S 10 W 26	N 22 W 34	S 15 W 34	S 26 E 68	N 07 E 18	N 70 W 22
20	S 03 W 26	S 17 E 5	N 10 E 18	S 06 W 15	S 06 E 11	N 09 E 10	S 12 W 16	N 11 W 26	S 15 W 37	S 26 E 72	N 20 W 21	N 54 W 19
	4 3^{43} a	**4** 7^{47} a	**4** 11^{46} a	**4** 3^{44} p	**4** 7^{44} p	**4** 11^{45} p	**16** 3^{48} a	**16** 8^{00} a	**16** 11^{45} a	**16** 3^{45} p	**16** 7^{44} p	**16** 11^{44} p
2½	N 11 W 36	N 20 E 38	N 05 W 62	N 09 W 38	N 02 W 33	N 13 W 76	N 20 W 9	N 09 W 64	N 16 W 46	S 89 W 30	N 19 W 59	N 24 E 29
5	N 32	N 10 W 28	N 01 E 54	N 09 W 39	N 06 W 34	N 29 E 80	N 20 W 19	N 09 W 69	N 30 E 24	S 48 W 25	N 01 E 54	N 04 E 25
10	S 15 W 18	S 36 W 7	N 34	N 13 E 16	S 04 E 18	N 06 E 63	S 11 E 35	N 09 W 37	N 88 E 16	S 03 E 38	N 02 E 19	N 16 E 20
15	S 06 W 15	S 49 W 7	N 06 W 33	N 22 E 7	S 17 E 13	N 24 W 30	S 10 W 36	N 06 E 27	S 09 E 13	S 24 E 54	N 20 W 19	N 10 E 14
20	S 06 W 15	S 66 W 5	N 13 W 29	N 33 W 4	S 18 E 14	N 14 W 22	S 12 E 25	N 10 W 20	S 53 E 9	S 20 E 45	N 20 W 19	S 53 W 19
	5 3^{45} a	**5** 7^{46} a	**5** 11^{45} a	**5** 3^{52} p	**5** 7^{45} p	**5** 11^{45} p	**17** 3^{48} a	**17** 7^{42} a	**17** 11^{44} a	**17** 3^{48} p	**17** 7^{44} p	**17** 11^{46} p
2½	N 11 W 36	N 20 E 38	N 22 W124	N 02 W124	N 08 E 90	N 36 W136	N 05 E 25	N 01 E 59	N 05 E 53	S 19 W 11	N 21 W 46	N 40
5	N 01 W 32	N 02 W150	N 01 E 164	N 03 W104	N 19 E 62	N 138	N 16 E 21	N 01 E 58	N 19 E 23	S 19 W 16	N 21 W 55	N 46
10	S 15 W 18	N 16 E 93	N 10 W117	N 03 W 69	N 27 W 57	N 16 E 112	S 23 E 26	N 01 E 9	N 31 E 20	S 40	N 57 W 25	N 33 W 34
15	S 05 W 16	N 21 W 58	N 01 W 59	N 46 W 47	S 80 W 10	N 15 E 93	S 14 E 36	N 01 E 11	N 70 W 10	S 10 W 42	S 05 E 4	N 15 E 25
20	S 05 W 16	N 05 W 45	S 57 E 56	S 50 W 29	S 46 W 7	N 30 E 47	S 10 W 19	N 01 E 11	N 83 W 7	S 01 E 37	S 54 E 4	N 63 W 8
	6 3^{45} a	**6** 7^{45} a	**6** 11^{45} a	**6** 3^{45} p	**6** 7^{45} p	**6** 11^{46} p	**18** 3^{47} a	**18** 7^{46} a	**18** 11^{45} a	**18** 3^{48} p	**18** 7^{45} p	**18** 11^{55} p
2½	N 02 W176	N 12 W108	N 13 W141	N 11 W 85	N 11 W 37	N 15 E 91	N 32	N 11 E 70	N 59	S 33 E 16	N 37 E 33	N 13 W 59
5	N 02 W150	N 96	N 01 W134	N 01 W 57	N 41 W 28	N 15 E 68	N 10 E 38	N 11 E 71	N 45	S 87 W 11	N 17 E 46	N 17 W 52
10	N 02 W 80	N 12 E 57	N 20 E 91	N 13 E 44	S 07 E 15	N 15 E 33	S 10 W 34	N 25 W 7	N 07 E 21	S 03 E 33	S 81 W 31	N 01 W 15
15	N 02 W 32	N 37 W 22	N 04 W 65	N 37 W 25	S 08 W 41	N 15 E 7	S 28	N 18 E 2	N 07 E 14	S 14 E 39	N 41 W 16	N 10 E 9
20	S 02 E 53	S 64 W 29	N 08 W 26	S 15 W 54	S 13 E 50	S 70 W 5	S 10 W 28	N 18 E 2	N 10 E 9	S 14 E 38	N 48 W 11	N 39 W 6
	7 3^{45} a	**7** 7^{46} a	**7** 11^{45} a	**7** 3^{48} p	**7** 7^{46} p	**7** 11^{44} p	**19** 3^{45} a	**19** 7^{44} a	**19** 11^{44} a	**19** 3^{46} p	**19** 7^{40} p	**19** 11^{45} p
2½	N 06 W 91	N 02 E 78	N 08 E 141	N 01 W 67	N 07 E 59	N 15 W124	N 01 E 53	N 34 E 56	N 42 E 29	S 30 W 20	S 33 E 16	N 45 E 53
5	N 16 E 87	N 07 E 76	N 08 E 111	N 10 E 57	N 04 W 31	N 15 W121	N 01 E 58	N 14 E 58	N 53 E 37	S 20 W 36	S 57 W 20	N 32 E 39
10	N 16 E 29	N 87 W 4	N 20 E 188	N 02 W 38	S 03 E 19	N 15 W 57	S 01 W 37	N 01 E 36	S 05 E 44	S 05 E 94	S 22 W 36	N 58 E 12
15	N 33 E 5	S 07 W 33	N 65 W 56	S 75 E 5	S 03 E 30	N 15 W 33	S 07 W 29	S 12 W 24	S 39	S 05 E 71	S 16 E 28	N 58 E 12
20	S 06 W 40	S 01 W 24	N 20 W 33	S 31	S 03 E 27	N 24 W 32	S 11 E 28	S 12 W 25	S 27 E 42	S 12 E 69	S 16 E 30	N 33 E 37
	8 3^{43} a	**8** 7^{44} a	**8** 11^{46} a	**8** 3^{45} p	**8** 7^{44} p	**8** 11^{44} p	**20** 3^{44} a	**20** 7^{45} a	**20** 11^{43} a	**20** 3^{45} p	**20** 7^{42} p	**20** 11^{44} p
2½	N 10 E 57	N 18 E 36	N 108	N 26 W 76	N 32 W 53	N 05 W 78	N 87 E 33	N 47 E 34	N 04 E 91	N 19 W 55	N 15 W 46	N 09 W 76
5	N 10 E 36	N 27 E 12	N 189	N 05 W 65	N 21 W 82	N 06 E 71	N 36 E 24	N 04 W 32	N 24 E 78	N 19 W 69	N 26 E 46	N 19 E 87
10	N 38 W 31	S 04 E 30	N 37 W 20	N 08 E 48	S 01 E 41	N 06 E 55	S 24 E 53	S 16 W 18	N 08 E 35	N 19 W 33	N 05 E 30	N 18 E 75
15	S 08 W 46	S 06 W 50	S 19	N 54 W 27	S 03 W 52	N 09 W 41	S 34 E 48	S 08 W 27	N 07 E 26	N 34 E 7	N 81 W 12	N 23 W 35
20	S 19 W 49	S 05 W 58	S 27 W 17	N 50 W 18	S 02 W 47	N 10 W 32	S 01 W 50	S 08 W 26	N 30 W 18	N 12 W 14	N 60 W 12	N 29 W 27
	9 3^{42} a	**9** 7^{45} a	**9** 11^{43} a	**9** 3^{45} p	**9** 7^{44} p	**9** 11^{44} p	**21** 3^{45} a	**21** 7^{45} a	**21** 11^{43} a	**21** 3^{46} p	**21** 7^{45} p	**21** 11^{45} p
2½	N 05 W 48	N 11 W 57	N 03 W 76	N 11 W 86	N 04 E 25	N 25 W 91	N 11 E 46	N 01 E 59	N 12 E 34	N 41 E 14	N 87 E 16	N 49 E 53
5	N 05 W 43	N 11 W 18	N 03 E 57	N 01 W 65	N 16 W 21	N 15 W 48	N 11 E 52	N 10 W 58	N 23 E 33	N 41 E 9	S 33 E 21	N 39 E 55
10	N 05 W 42	N 39 E 15	N 26 W 20	N 01 W 52	S 22 W 20	N 25 W 30	N 12 E 30	N 10 W 43	N 11 E 6	S 24 E 36	S 02 E 37	N 62 E 30
15	N 84 W 23	S 03 W 37	N 50 W 13	N 01 W 38	S 04 W 29	N 63 W 14	S 02 E 20	S 17 E 58	S 15 W 22	S 03 W 39	S 03 W 49	N 25 W 22
20	N 75 W 27	S 02 E 30	N 09 W 6	N 15 W 28	S 13 W 25	N 75 W 9	S 05 E 32	S 17 E 43	S 15 W 22	S 08 E 31	S 02 W 54	N 34 W 17
	10 3^{40} a	**10** 7^{44} a	**10** 11^{44} a	**10** 3^{45} p	**10** 7^{45} p	**10** 11^{48} p	**22** 3^{44} a	**22** 7^{43} a	**22** 11^{50} a	**22** 3^{44} p	**22** 7^{44} p	**22** 11^{46} p
2½	N 11 W 59	S 42 E 11	N 27 E 93	N 10 E 76	N 22 W 36	N 02 W 43	N 24 E 39	N 11 E 34	N 21 E 57	N 02 W 59	N 10 W 25	N 19 W 64
5	N 11 W 41	N 12 W 13	N 07 W 34	N 20 E 57	N 46	N 10 E 46	N 02 W 31	N 23 E 18	N 21 E 58	N 50 E 52	N 33	N 19 W 69
10	N 06 W 34	S 22 E 25	N 45 W 11	N 10 E 56	N 20 E 38	N 10 E 12	S 20 E 14	S 02 W 27	N 21 E 23	N 30 E 31	S 09 E 21	N 16 E 12
15	N 06 W 24	S 13 E 46	N 80 W 11	N 04 W 40	S 11 W 19	S 71 W 4	S 07 E 16	S 02 W 34	N 21 E 20	N 18 W 30	S 02 E 26	N 13 E 14
20	N 06 W 20	S 06 E 26	S 77 W 10	N 04 W 31	N 18 W 4	S 16 W 5	S 07 W 15	S 02 W 35	N 21 E 30	N 53 W 22	S 03 W 29	N 24 W 8
	11 3^{45} a	**11** 7^{44} a	**11** 11^{45} a	**11** 3^{46} p	**11** 7^{45} p	**11** 11^{45} p	**23** 3^{50} a	**23** 7^{45} a	**23** 11^{44} a	**23** 3^{50} p	**23** 7^{44} p	**23** 11^{45} p
2½	N 10 E 80	N 13 E 33	N 05 W 20	N 26 W 70	N 10 W 44	N 31 E 25	N 15 W 40	N 09 W 32	N 10 E 50	N 11 W 53	N 09 E 6	N 09 W 46
5	N 10 E 53	N 03 E 35	N 28 E 11	N 26 W 69	N 16 W 43	N 21 E 28	N 15 W 46	N 09 W 31	N 20 E 45	N 18	N 31 W 20	N 12 E 36
10	N 23 W 45	N 34 W 6	S 74 E 13	N 26 W 28	S 10 W 4	N 76 E 20	N 15 E 12	S 09 E 26	W 7	N 21 E 23	S 21 E 15	S 15 E 19
15	N 27 W 26	S 01 W 11	S 23 W 19	N 48 W 13	S 23 E 11	S 40 W 18	N 30 W 12	S 09 E 33	N 80 W 10	N 27 E 18	S 02 E 19	N 75 W 12
20	N 27 W 26	S 04 W 17	S 12 W 24	N 48 W 13	S 30 W 6	S 40 W 20	N 36 W 11	S 09 E 34	N 45 W 10	N 02 E 17	S 08 W 17	N 26 W 13
	12 3^{37} a	**12** 7^{45} a	**12** 11^{48} a	**12** 3^{45} p	**12** 7^{50} p	**12** 11^{44} p	**24** 3^{45} a	**24** 7^{44} a	**24** 11^{41} a	**24** 3^{44} p	**24** 7^{44} p	**24** 11^{44} p
2½	N 11 E 70	N 30 W 40	N 72 E 29	N 10 W 46	N 19 W 53	N 08 E 25	N 19 W 56	N 49 W 7	N 11 E 16	N 08 E 21	N 30 E 33	N 38 E 16
5	N 11 E 79	N 20 W 43	S 73 E 28	N 57	N 19 W 52	N 03 W 21	N 29 W 52	N 79 W 24	N 79 W 18	N 08 E 25	N 25 E 31	N 01 W 18
10	N 23 E 52	N 01 W 20	S 07 W 11	N 36	N 19 W 30	N 29 W 15	S 21 E 20	S 10 E 46	S 20 E 25	N 24 W 32	N 32 W 35	S 18 W 14
15	N 10 E 44	N 08 E 14	S 41 W 26	N 43 W 20	N 01 W 11	S 06 E 24	N 30 W 18	S 01 W 47	S 19 E 39	N 24 W 23	N 33 W 31	S 41 W 16
20	N 25 E 33	N 35 E 15	S 50 W 29	N 32 W 15	N 20 W 8	S 16 E 27	N 45 W 13	S 01 W 39	S 09 E 46	N 23 W 30	N 33 W 29	S 62 W 10
	13 3^{52} a	**13** 7^{46} a	**13** 11^{48} a	**13** 3^{46} p	**13** 7^{48} p	**13** 11^{48} p	**25** 3^{44} a	**25** 7^{41} a	**25** 11^{44} a	**25** 3^{44} p	**25** 7^{46} p	**25** 11^{45} p
2½	N 09 W 76	N 29 W 59	S 11 E 11	N 30 W 58	N 20 W 68	N 49 W 25	N 11 W 33	N 56 W 7	S 34 W 11	N 03 W 46	N 09 W 53	N 19 W 29
5	N 09 W 60	N 08 W 44	S 15 E 16	N 30 W 38	N 10 W 54	N 78 W 21	N 29	N 56 W 4	S 34 W 6	N 04 E 43	N 30 W 27	N 49 W 25
10	N 09 W 69	N 07 W 25	S 15 E 25	N 30 W 30	N 10 W 29	S 42 E 17	N 21 W 24	S 24 W 19	S 04 W 30	N 06 E 22	N 17 E 16	S 38 E 21
15	N 22 W 33	N 10 W 15	S 15 E 54	N 13 W 15	N 08 W 14	S 50 E 40	N 34 W 18	S 36 W 10	S 04 W 22	N 18 W 27	N 15 E 23	S 10 E 19
20	N 40 W 21	N 19 W 9	S 15 E 55	N 18 E 7	N 32 W 9	S 40 E 42	N 21 W 23	S 10 W 20	S 15 W 26	N 06 W 37	N 09 W 22	S 10 E 16
	14 3^{46} a	**14** 7^{49} a	**14** 11^{43} a	**14** 3^{44} p	**14** 7^{44} p	**14** 11^{46} p	**26** 3^{44} a	**26** 7^{46} a	**26** 11^{41} a	**26** 3^{45} p	**26** 7^{45} p	**26** 11^{44} p
2½	N 58	N 11 W 72	S 10 W 11	N 20 W 44	N 11 E 66	N 11 W 22	N 09 W 53	N 09 E 25	S 57 W 23	N 19 E 25	S 38 E 21	S 12 W 21
5	N 55	N 31 W 67	S 10 W 13	N 34 E 19	N 20 W 58	N 01 W 17	N 19 W 55	N 01 W 32	S 14 E 27	N 40 E 33	S 80 E 15	S 02 W 33
10	N 43	N 02 E 54	S 31 W 16	S 09 W 26	N 20 W 40	N 26 E 6	N 32 W 21	W 7	S 23 E 59	S 30 W 33	N 79 W 19	S 11 E 42
15	N 20 W 26	N 14 E 25	S 10 E 34	S 35	N 10 W 31	S 07 W 10	N 08 E 20	S 44 E 17	S 23 E 56	N 25	N 39 W 25	S 03 E 27
20	S 76 W 7	N 10 W 22	S 10 E 41	S 16 E 31	N 09 W 24	S 12 E 12	N 07 W 25	N 13 W 11	S 29 E 55	N 10 E 32	N 12 E 29	S 04 W 21

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende May 27—June 19 1913.

Meter	27 3^{48} a	27 7^{44} a	27 11^{42} a	27 3^{45} p	27 7^{46} p	27 11^{45} p	8 3^{46} a	8 7^{46} a	8 11^{47} a	8 3^{44} p	8 7^{41} p	8 11^{46} p
2½	N 55 E 16	N 23 E 25	S 03 E 58	N 87 W 16	N 59 E 21	N 71 E 13	S 77 W 16	S 08 E 19	N 17 E 30	N 14 E 18	N 10 E 20	N 30 E 80
5	N 49 E 25	N 06 W 36	S 28 W 58	S 27 E 18	N 07 E 13	S 79 E 25	S 03 E 21	S 22 E 27	N 02 E 20	N 46 W 16	N 26 E 16	N 20 E 78
10	N 65 W 16	N 03 E 31	S 30 W 29	S 84 W 18	N 14 W 18	S 45 W 16	S 13 W 53	S 02 W 80	S 29 E 17	S 16 W 5	S 06 W 26	N 47 W 19
15	N 06 W 28	N 04 E 35	S 09 E 29	S 42 W 25	N 02 W 26	S 45 W 20	S 34 W 57	S 77	S 20 W 12	N 64 W 5	S 10 E 25	N 47 W 18
20	N 06 W 23	N 04 W 23	S 14 E 19	S 42 W 28	N 15 W 18	S 08 E 24	S 05 E 67	S 05 W 53	S 60 W 16	N 36 W 12	S 05 E 24	N 10 E 41
	28 3^{44} a	**28** 7^{45} a	**28** 11^{44} a	**28** 3^{50} p	**28** 7^{45} p	**28** 11^{42} p	**9** 3^{44} a	**9** 7^{46} a	**9** 11^{50} a	**9** 3^{48} p	**9** 7^{46} p	**9** 11^{44} p
2½	N 20 W 11	N 28 W 26	S 05 E 13	N 10 E 13	N 06 W 24	S 39 W 20	N 01 W 48	N 09 E 48	N 15 E 48	S 74 E 24	S 42	S 15 W 23
5	N 10 E 8	N 20 W 29	S 15 E 24	S 40 W 20	N 15 E 30	N 50 W 11	N 01 W 58	N 08 W 45	N 15 E 52	S 31 E 36	S 10 W 76	S 02 W 91
10	S 40 W 11	N 05 E 33	S 51 E 29	S 25	N 72 W 14	S 49 W 16	N 05 W 58	S 03 E 43	S 04 W 30	S 23 E 41	S 04 E 82	S 12 W 32
15	S 10 W 16	N 11 W 32	S 62 E 28	S 02 E 17	N 49 W 17	S 30 W 17	N 54 W 12	S 04 W 36	S 10 E 22	S 01 E 37	S 04 E 84	S 01 E 35
20	N 02 E 14	N 05 W 36	S 63 E 27	N 02 E 21	N 21 W 20	S 01 E 19	N 40 W 18	S 01 E 25	S 10 W 24	S 11 E 21	S 15 W 62	S 12 W 37
	29 3^{45} a	**29** 7^{44} a	**29** 11^{45} a	**29** 3^{43} p	**29** 7^{45} p	**29** 11^{45} p	**10** 3^{45} a	**10** 7^{46} a	**10** 11^{48} a	**10** 3^{48} p	**10** 7^{46} p	**10** 11^{44} p
2½	N 10 E 18	N 20 W 89	N 10 W 32	N 27 W 33	N 11 E 40	S 12 W 16	N 77 E 46	N 35 E 29	N 50 E 30	N 20 E 85	S 31 E 16	S 15 W 48
5	N 52 W 13	N 20 W 68	N 20 W 33	N 25 W 32	N 41 E 43	N 83 W 13	N 45 E 24	N 23 E 12	S 14 E 30	N 06 E 73	S 40 E 24	S 15 W 47
10	S 02 E 17	N 20 E 34	N 20 W 25	S 22 E 48	N 31 E 50	S 44 E 16	N 45 E 20	S 10 W 26	S 05 E 39	N 18 W 26	S 06 E 20	S 05 W 68
15	S 02 E 17	N 29 E 41	N 82 W 18	S 08 W 39	N 20 E 49	S 21 E 25	N 19 E 20	N 86 W 1	S 06 W 33	S 03 W 2	S 27 E 21	S 06 E 72
20	N 18 W 13	N 17 E 34	S 75 W 17	S 06 W 41	N 05 E 44	S 21 E 19	N 03 E 13	S 16 W 16	S 14 E 25	N 28 W 16	S 14 E 31	S 17 E 74
	30 3^{46} a	**30** 7^{44} a	**30** 11^{44} a	**30** 3^{44} p	**30** 7^{40} p	**30** 11^{45} p	**11** 3^{45} a	**11** 7^{45} a	**11** 11^{42} a	**11** 3^{48} p	**11** 7^{43} p	**11** 11^{46} p
2½	S 87 W 7	N 10 W 64	N 05 W 51	N 79 W 7	N 25 W 80	N 11 W 16	S 05 E 48	S 10 E 108	S 03 E 108	S 18 E 59	S 25 E 69	S 23 E 108
5	S 18 E 24	N 10 W 43	N 05 W 54	N 79 W 7	N 25 W 83	N 01 W 30	S 15 W 46	S 16 E 84	S 08 E 108	S 12 E 19	S 04 W 95	S 17 E 108
10	S 13 W 34	N 23 W 21	N 22 W 34	S 49 E 25	N 25 W 19	N 09 E 20	S 06 W 76	S 01 E 95	S 12 E 119	N 17 W 22	S 20 E 35	S 17 E 90
15	S 46 E 41	N 38 W 37	N 23 W 28	S 02 W 37	N 09 W 24	N 38 W 12	S 05 W 59	S 06 W 64	S 18 W 83	N 26 W 49	S 46 W 44	S 16 E 10
20	S 07 W 41	N 03 W 38	N 03 W 21	S 09 E 30	N 06 W 18	N 40 W 9	S 21 E 29	S 12 W 53	S 05 W 92	N 04 W 48	N 60 W 24	N 54 E 9
	31 3^{44} a	**31** 7^{43} a	**31** 11^{44} a	**31** 3^{44} p	**31** 7^{44} p	**31** 11^{50} p	**12** 3^{46} a	**12** 7^{45} a	**12** 11^{40} a	**12** 3^{48} p	**12** 7^{46} p	**12** 11^{51} p
2½	S 41 W 11	N 20 W 64	N 08 E 46	S 27 W 7	N 11 E 50	N 13 W 53	S 20 E 85	S 08 E 71	S 19 E 124	S 07 E 69	S 35 E 59	S 08 W151
5	S 71 W 11	N 58	N 13 W 52	S 67 W 14	N 01 E 45	N 13 W 45	S 20 E 83	S 10 E 97	S 02 W134	S 02 E 87	S 17 E 65	S 08 W157
10	S 41 W 29	N 24 W 23	N 13 E 37	S 34 E 20	N 81 W 10	N 19 E 30	N 12 W 43	S 10 W 62	S 06 E 110	S 12 W 45	S 12 W 57	S 29 E 148
15	S 41 W 36	N 40 W 20	N 01 E 36	S 04 E 70	N 50 E 4	N 34 E 21	N 10 W 47	S 05 E 49	S 06 W 59	N 16	N 07 W 13	S 38 E 79
20	S 40 W 31	N 03 E 31	N 03 W 27	S 14 E 67	N 45 W 4	N 09 W 23	N 10 W 46	S 09 W 25	S 04 E 47	N 12 W 31	N 14 W 30	S 86 E 64
	1 3^{44} a	**1** 7^{46} a	**1** 11^{45} a	**1** 3^{44} p	**1** 7^{39} p	**1** 11^{49} p	**13** 3^{47} a	**13** 7^{47} a	**13** 11^{46} a	**13** 3^{58} p	**13** 7^{40} p	**13** 11^{44} p
2½	N 38 W 13	N 11 W 9	N 15 W 39	N 08 W 21	N 17 E 30	N 25 W 42	S 43 E 77	S 10 E 43	S 20 E 89	S 11 E 53	N 48 E 30	N 25 W 6
5	N 66 W 18	N 14 E 33	N 15 W 33	N 18 W 20	N 03 W 39	N 26 E 37	S 20 E 96	S 13 E 48	S 20 E 78	S 11 E 58	N 44 E 30	N 35 E 11
10	S 12 W 20	S 33 W 21	N 15 W 21	S 48 W 6	N 57 W 9	N 30 W 18	S 04 W104	S 35 E 32	S 32 E 43	S 11 E 58	N 06 E 28	N 17 E 20
15	S 23 W 33	S 16 W 14	N 29 W 12	S 17 E 10	N 68 W 12	N 07 E 12	S 43 E 58	N 11 E 32	N 23 W 11	S 04 E 50	N 02 W 35	N 07 E 13
20	S 08 W 40	S 09 W 6	N 39 W 6	S 18 W 8	N 15 W 13	N 66 W 11	N 48 W 16	N 34 W 25	N 26 W 6	N 46 E 10	N 70 W 16	N 70 W 14
	2 3^{44} a	**2** 7^{44} a	**2** 11^{44} a	**2** 3^{48} p	**2** 7^{45} p	**2** 11^{45} p	**14** 3^{44} a	**14** 7^{43} a	**14** 11^{45} a	**14** 3^{46} p	**14** 7^{45} p	**14** 11^{50} p
2½	N 30 W 30	N 09 W 56	N 15 E 48	N 35 E 46	N 34 E 44	N 19 W 33	N 41 W 16	N 24 E 55	N 28 E 33		N 35 E 29	N 30 W 16
5	N 30 W 22	N 20 W 36	N 26 E 58	N 20 E 28	S 84 E 34	N 29 W 37	N 41 W 16	N 24 E 53	N 05 W 41	N 23 W 4	N 30 E 33	N 40 W 16
10	S 20 E 24	N 54 E 5	N 26 E 43	N 43 W 11	S 37 E 19	S 09 W 13	N 21 W 13	N 16 W 66	N 07 W 44	N 48 W 6	N 06 W 39	N 49 W 13
15	S 10 E 24	N 34 E 7	N 05 E 28	N 67 W 6	S 52 W 11	S 09 W 12	N 09 W 13	N 16 W 70	N 46 E 16	S 02 W 9	N 05 W 54	W 13
20	S 10 E 27	N 54 W 11	N 30 W 20	N 23 W 6	S 70 W 13	S 18 W 12	N 10 W 12	N 36 W 32	N 88 W 10	S 08 E 16	N 09 W 47	S 74 W 12
	3 3^{47} a	**3** 7^{50} a	**3** 11^{46} a	**3** 3^{45} p	**3** 7^{44} p	**3** 11^{45} p	**15** 3^{44} a	**15** 7^{46} a	**15** 11^{40} a	**15** 3^{46} p	**15** 7^{44} p	**15** 11^{44} p
2½	N 20 W 14	N 22 E 20	N 01 E 46	N 19 W 19	N 35 E 30	N 21 E 51	S 23 E 20	N 33 W 34	N 20 E 27	S 26 W 9	N 09 W 38	N 08 W 18
5	N 06 E 19	N 01 E 22	N 09 W 42	N 29 W 27	N 05 W 31	N 01 E 47	S 27 W 29	N 04 E 28	N 10 E 33	S 08 W 9	N 24 E 32	N 03 E 34
10	S 30 E 36	S 56 E 30	N 10 W 20	N 34 W 28	S 01 E 23	N 18 W 39	S 03 W 35	N 10 W 37	N 05 E 27	S 17 E 24	N 09 E 20	N 09 W 23
15	S 28 E 36	S 56 E 38	N 20 W 33	S 46 W 11	S 07 W 26	N 10 W 33	S 04 E 35	N 10 W 22	N 21 W 16	S 34	N 86 W 6	N 34 W 13
20	S 11 E 32	S 28 E 16	N 05 E 26	S 06 E 12	S 16 W 25	N 48 W 19	S 26 E 11	N 14 W 21	N 40 W 20	S 04 E 37	N 33 W 15	N 45 W 18
	4 3^{45} a	**4** 7^{46} a	**4** 11^{46} a	**4** 3^{46} p	**4** 7^{45} p	**4** 11^{51} p	**16** 3^{44} a	**16** 7^{44} a	**16** 11^{50} a	**16** 3^{50} p	**16** 7^{46} p	**16** 11^{44} p
2½	N 19 E 19	N 32 E 17	N 11 W 61	N 19 E 55	N 20 E 46	N 19 W 80	N 49 W 11	N 39 W 38	N 02 W 53	S 08 W 6	N 22 W 19	N 53
5	N 19 E 19	N 17 W 8	N 16 W 67	N 18 W 36	N 01 W 33	N 19 W 51	S 49 E 11	N 07 E 34	N 13 W 47	S 05 W 6	N 16 W 20	N 30 W 58
10	S 01 W 12	S 26 E 20	N 14	N 34 W 10	S 32 W 11	N 19 W 20	S 12 W 14	N 26 E 18	N 30 E 57	S 28 W 14	N 63 E 6	N 20 W 43
15	S 15	S 03 E 20	N 01 E 30	N 78 W 5	S 32 W 11	N 29 E 17	S 11 W 18	S 39 W 7	N 20 W 34	S 07 E 13	S 36 E 8	N 20 W 34
20	S 16 E 11	S 06 W 20	N 46 E 23	S 32 W 3	S 03 W 11	N 20 W 19	S 08 W 18	N 54 W 5	N 29 W 27	S 10 E 18	S 08 E 5	N 33 W 34
	5 3^{46} a	**5** 7^{46} a	**5** 11^{46} a	**5** 3^{50} p	**5** 7^{46} p	**5** 11^{46} p	**17** 3^{50} a	**17** 7^{45} a	**17** 11^{44} a	**17** 3^{48} p	**17** 7^{47} p	**17** 11^{46} p
2½	N 01 E 42	N 22 E 21	N 21 E 61	N 20 E 33	N 20 E 30	N 20 E 55	N 29 W 11	N 23 W 16	N 15 W 40	N 24 W 20	N 39 W 6	N 42 W 53
5	N 10 W 34	S 33 W 9	N 01 E 58	N 10 E 38	N 12 E 32	N 20 E 75	S 71 W 6	N 23 W 16	N 05 W 46	N 18 W 13	N 49 W 9	N 18 E 58
10	S 27 W 11	S 22 W 29	W 6	S 82 W 4	S 13 E 10	N 25 W 35	S 61 W 11	N 28 W 16	N 62	S 74 W 8	N 04 W 16	N 03 W 35
15	S 16 E 13	S 10 W 29	N 27 W 22	N 15 E 5	S 30 W 11	N 34	S 20 W 14	S 03 E 10	N 10 W 60	N 76 W 4	S 04 W 12	N 10 E 26
20	S 09 W 16	S 10 W 26	N 06 E 21	S 82 W 4	S 06 E 10	N 09 W 35	S 17	S 18 W 8	N 28 W 54	S 80 W 8	S 05 W 14	N 10 E 24
	6 3^{45} a	**6** 7^{46} a	**6** 11^{48} a	**6** 3^{36} p	**6** 7^{46} p	**6** 11^{45} p	**18** 3^{44} a	**18** 7^{45} a	**18** 11^{43} a	**18** 3^{48} p	**18** 7^{46} p	**18** 11^{44} p
2½	N 21 E 53	N 19 E 16	N 22 E 36	N 05 E 31	N 12 E 29	N 02 E 85	N 01 W 11	S 79 W 4	N 19 W 55	N 14 W 22	S 49 W 6	N 09 W 37
5	N 21 E 45	N 31 W 19	N 09 E 43	N 23	N 42 W 10	N 02 E 78	N 01 W 11	S 64 W 9	N 19 W 58	N 04 W 13	S 79 W 6	N 19 W 44
10	N 35 W 31	S 26 E 40	S 06 W 14	S 05 W 15	S 60 E 32	N 13 W 25	S 39 W 13	S 17 W 14	N 02 W 39	N 74 W 6	S 75 W 9	N 19 W 44
15	N 52 W 12	S 01 W 47	S 62 W 6	S 05 E 9	S 41 E 27	N 25 W 31	S 07 W 14	S 06 E 36	N 01 W 31	S 80 W 4	S 16 E 19	N 32 W 20
20	N 39 W 11	S 06 E 53	N 82 W 7	S 05 E 9	S 31 E 12	N 15 W 30	S 08 W 16	S 01 E 25	N 15 W 23	S 59 W 13	S 16 W 10	N 20 W 16
	7 3^{44} a	**7** 7^{46} a	**7** 11^{48} a	**7** 3^{46} p	**7** 7^{46} p	**7** 11^{44} p	**19** 3^{45} a	**19** 7^{46} a	**19** 11^{43} a	**19** 3^{46} p	**19** 7^{41} p	**19** 11^{43} p
2½	N 13 W 48	N 15 E 29	N 12 E 124	N 10 W 46	N 14 E 61	N 11 E 44	N 27 E 9	E 17	N 20 E 90	N 11 E 37	N 17 W 25	N 46
5	N 13 W 42	N 04 E 17	N 68	N 25 W 56	S 01 W 21	N 04 E 36	N 27 E 24	S 36 E 11	N 28 E 92	N 30 E 34	N 33 W 15	N 10 W 52
10	N 04 E 17	S 15 E 24	N 05 W 59	S 31 E 30	S 31 W 49	S 84 E 29	S 49 W 8	S 69 E 15	N 20 E 68	N 19 E 55	S 54 E 17	N 10 W 42
15	N 19 E 12	S 26 E 30	N 16 W 40	S 10 E 33	S 12 E 65	S 11 W 44	S 13 E 10	S 04 E 32	N 64	N 01 W 22	S 03 E 29	N 23 W 29
20	N 83 W 8	S 21 E 26	N 05 E 50	S 22 E 48	S 01 W 42	S 10 E 40	S 04 E 13	S 08 E 15	N 20 W 28	N 23	S 02 E 33	N 34 W 10

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende June 20—July 13 1913.

Meter	20 3⁴⁴ a	20 7⁴⁶ a	20 11⁴⁴ a	20 3⁴⁷ p	20 7⁴⁶ p	20 11⁴⁵ p	2 3⁴⁴ a	2 7⁴⁸ a	2 11⁵⁰ a	2 3⁴⁹ p	2 7⁴⁶ p	2 11⁴⁶ p
2½	N 30 E 25	N 67 W 6	N 10 W 42	N 10 W 17	S 58 E 6	N 32 W 53	N 38 W 7	N 23 W 43	N 05 W 30	S 51 W 17	N 02 W 9	N 45 W 24
5	N 21	S 44 W 11	N 16 W 38	N 10 W 20	N 50 E 7	N 32 W 58	N 07 W 19	N 03 W 63	N 06 E 23	S 71 W 26	N 38 E 14	N 46
10	N 12 W 17	S 43 E 13	N 29 W 14	N 30 W 8	N 86 E 6	N 05 E 37	N 41 E 20	N 20 E 44	N 27 E 45	N 17 E 35	N 10 E 30	N 11 W 49
15	S 15	S 01 E 39	S 80 W 5	S 37 W 6	S 18 E 21	N 02 W 12	N 89 E 8	N 54 E 10	N 43 W 45	S 29 E 17	N 04 E 35	N 78
20	S 10 W 17	S 06 E 35	N 49 W 10	S 30 W 6	S 08 E 25	N 23 W 12	S 01 W 18	N 06 E 13	N 06 E 52	S 28 E 14	N 11 W 25	N 05 W 37
	21 3⁴⁶ a	**21** 7⁴⁶ a	**21** 11⁵² a	**21** 3⁴⁸ p	**21** 7⁴⁶ p	**21** 11⁴² p	**3** 3⁴⁷ a	**3** 7⁴⁴ a	**3** 11⁴² a	**3** 3⁴³ p	**3** 7⁴⁴ p	**3** 11⁴⁶ p
2½	N 11 E 38	N 60 E 6	N 05 W 33	N 25 E 29	S 56 W 6	N 11 W 45	N 39 E 37	N 04 E 29	N 01 E 78	N 13 E 25	N 06 W 16	N 13 W 45
5	N 05 E 24	N 22 E 6	N 05 W 28	N 09 E 18	S 51 W 9	N 11 W 47	N 04 E 46	N 12 E 37	N 02 W 64	N 03 E 29	N 06 W 20	N 02 W 52
10	N 09 W 14	N 37 E 7	S 56 E 12	N 34 W 13	S 51 W 7	N 11 W 30	N 11 E 47	N 14 W 55	N 04 E 55	N 28 W 20	N 03 E 19	N 03 W 58
15	N 84 W 7	S 28 E 18	S 30 E 15	S 74 W 6	S 16	S 12 W 13	N 17 E 23	N 12 E 29	N 11 W 54	N 06 E 21	N 04 W 2	N 10 E 31
20	S 52 W 12	S 18 E 21	S 21 W 10	N 70 W 4	S 09 E 20	N 69 W 5	S 28 E 14	S 10 E 1	N 14 W 33	N 14 W 13	S 57 W 5	N 49 W 8
	22 3⁴⁴ a	**22** 7⁴⁵ a	**22** 11⁴⁵ a	**22** 3⁴⁸ p	**22** 7⁴⁶ p	**22** 11⁴⁶ p	**4** 3⁴⁴ a	**4** 7⁴⁸ a	**4** 11¹⁸ a	**4** 3⁵⁰ p	**4** 7⁴⁹ p	**4** 11⁴⁴ p
2½	N 19 E 45	S 85 W 6	N 13	N 15 W 20	N 73 W 6	N 19 W 25	N 14 E 18	N 50 W 13	N 02 E 48	N 09 W 20	S 60 E 24	N 28 E 21
5	N 02 W 51	N 55 W 13	N 14 W 9	N 15 E 25	N 28 W 13	N 13 W 31	N 31 W 21	N 67 W 18	N 18 W 50	N 16 W 14	S 55 W 4	N 08 E 18
10	N 04 E 30	N 48 W 9	S 07 W 7	N 18 W 21	N 02 E 19	N 14 W 20	N 10 W 12	S 40 E 11	N 35 E 18	S 14 E 14	S 08 E 24	S 12 E 26
15	N 19 W 17	S 33 W 6	S 06 E 21	N 56 W 10	N 73 W 5	N 26 W 13	S 03 E 17	S 07 W 48	S 36 W 2	S 10 E 49	S 08 E 54	S 18 W 16
20	N 23 W 12	S 10 W 6	S 06 W 15	N 70 W 10	S 86 W 7	N 13 W 8	S 13 E 19	S 10 W 47	N 88 W 7	S 02 E 43	S 03 E 55	S 34 W 21
	23 3⁴⁵ a	**23** 7⁴⁵ a	**23** 11⁴⁷ a	**23** 3⁵⁷ p	**23** 7⁴⁶ p	**23** 11⁴⁸ p	**5** 3¹⁵ a	**5** 7⁴⁵ a	**5** 11⁴⁶ a	**5** 3¹⁶ p	**5** 7⁴⁷ p	**5** 11⁴⁸ p
2½	N 08 W 53	N 20 E 13	N 11 W 37	N 05 E 42	N 13 W 14	N 41 W 19	S 01 E 21	S 15 W 26	N 45 E 25	S 14 W 20	S 21 E 21	N 40 E 16
5	N 02 E 55	N 27 W 17	N 16 W 19	N 05 E 36	N 48 W 19	N 16 W 16	S 16 E 25	S 48 E 20	S 43 E 16	S 04 W 24	S 11 E 33	N 30 E 20
10	N 09 W 44	N 25 W 16	S 47 E 7	N 25 W 21	N 28 W 14	S 40 W 11	S 39	S 05 E 53	S 54 E 16	S 04 W 28	S 11 E 30	N 11 W 32
15	N 10 W 24	S 27 W 12	S 03 W 31	N 49 W 7	S 31 E 7	S 13 W 24	S 11 E 45	S 06 W 42	S 42 E 10	S 02 E 38	S 07 W 18	N 35
20	N 54 W 13	S 18 W 12	S 18	N 30 W 12	N 71 W 5	S 02 W 29	S 11 E 39	S 06 W 28	S 44 E 5	S 02 E 32	N 06 E 14	N 11 W 30
	24 3⁴⁸ a	**24** 7⁴⁶ a	**24** 11⁵¹ a	**24** 3⁵⁷ p	**24** 8⁰⁵ p	**24** 11⁵⁸ p	**6** 3¹⁴ a	**6** 7⁴⁴ a	**6** 11⁴⁸ a	**6** 3⁴⁴ p	**6** 7⁴⁸ p	**6** 11⁴⁶ p
2½	N 59	N 20 W 33	N 23 W 7	N 42	N 07 E 32	N 30 W 21	N 88 W 11	S 18 E 11	S 49 W 9	S 35 W 6	S 15 W 14	N 04 E 21
5	N 48	N 22	S 45 W 7	N 30 W 37	N 01 E 25	N 33 E 16	S 01 E 7	S 05 W 30	S 69 W 6	S 65 W 20	S 45 W 16	N 06 W 26
10	N 12 W 32	N 10 E 26	S 16 E 14	N 76 W 8	N 02 W 14	N 33 E 15	N 29 E 11	S 09 W 17	N 45 W 19	S 52 W 6	S 24 W 20	N 06 W 35
15	N 38 W 24	N 81 W 7	S 10 E 40	S 78 W 7	S 89 W 3	S 26	N 40 W 9	S 04 E 16	N 15 W 25	S 86 W 15	S 24 W 21	N 06 W 35
20	N 26 W 20	N 60 W 9	S 05 E 29	N 52 W 13	S 89 W 8	S 09 W 29	S 89 W 16	S 29 W 5	N 04 W 28	S 53 W 12	S 36 W 14	N 06 E 33
	25 3⁴⁶ a	**25** 7⁴⁴ a	**25** 11⁴⁷ a	**25** 3⁴⁸ p	**25** 7⁴⁷ p	**25** 11⁴⁴ p	**7** 3⁴⁵ a	**7** 7⁴⁴ a	**7** 11⁴³ a	**7** 3⁵¹ p	**7** 7⁴⁵ p	**7** 11⁴⁷ p
2½	N 25 E 61	N 15 W 48	N 01 W 9	N 55	N 19 E 36	N 80 W 6	N 20 W 7	S 37 W 9	N 30 E 19	N 10 W 41	N 10 W 16	N 28 E 42
5	N 05 W 52	N 16 E 33	N 26 W 7	N 05 W 48	N 41	N 42 W 13	N 10 W 11	S 77 W 7	N 20 E 20	N 20 W 28	N 40 W 20	N 07 E 38
10	N 06 W 29	N 10 E 27	S 27 W 6	N 30 E 4	N 02 W 10	S 45 W 9	N 01 E 11	S 10 E 16	S 20 W 12	N 03 E 16	S 20 E 15	N 07 W 15
15	N 20 W 25	N 16 W 18	S 04 W 21	N 87 W 8	N 77 W 6	S 34 E 39	N 70 W 9	S 09 E 25	S 04 W 6	N 18 E 11	S 10 E 21	N 20 W 18
20	N 08 W 19	N 84 W 11	S 04 W 29	N 67 E 10	N 84 W 21	S 30 W 36	S 83 W 11	S 09 E 28	N 03 W 8	N 40 W 9	S 22	N 07 E 17
	26 3⁴⁴ a	**26** 7⁴⁷ a	**26** 11¹⁸ a	**26** 4⁰² p	**26** 7¹⁸ p	**26** 11⁴⁴ p	**8** 3¹⁵ a	**8** 7⁴⁴ a	**8** 11⁴² a	**8** 3⁴⁸ p	**8** 7⁵⁰ p	**8** 11⁴¹ p
2½	N 49 E 37	N 20 E 24	S 08 E 21	S 21 E 18	S 16 E 40	S 13 W 59	N 25 E 30	N 34 E 31	N 27 W 40	N 11 W 89	N 47 E 17	N 09 W 43
5	N 60 E 43	N 30 E 26	S 08 W 38	S 40	S 05 E 48	S 13 W 54	N 35 E 34	N 66 E 30	N 35 E 42	N 20 W 89	S 86 W 10	N 12 E 24
10	N 60 E 22	N 28 W 5	S 03 W 29	S 11 E 31	S 11 E 59	S 18 E 68	N 14 E 8	S 20 E 20	N 70 W 13	N 14 W 30	N 73 W 14	S 85 W 21
15	N 59 E 14	S 08 E 13	S 01 E 83	S 06 E 40	S 04 E 40	S 18 E 76	N 17 W 19	S 05 E 20	N 57 W 6	N 09 E 20	S 04 E 19	S 26 W 21
20	N 53 E 11	S 29 W 13	S 06 E 69	S 07 W 21	S 03 W 25	S 07 W 40	N 19 W 16	S 04 E 16	N 05 W 16	N 15	S 04 E 24	S 21 E 17
	27 3⁴⁴ a	**27** 7⁴⁶ a	**27** 11⁵⁵ a	**27** 3⁴³ p	**27** 7⁴⁸ p	**27** 11⁴² p	**9** 3⁴⁵ a	**9** 7⁴⁵ a	**9** 11⁴⁴ a	**9** 3⁴³ p	**9** 7⁴⁵ p	**9** 11⁴⁵ p
2½	S 20 E 25	S 21 E 9	S 09 E 32		0	N 10 W 11	N 24 E 36	N 57 E 9	S 01 E 11	N 21 E 33	N 21 E 11	N 16 W 16
5	S 30 E 31	N 67 E 14	S 18 E 22	S 31 E 14	N 70 E 16	N 10 W 14	N 20 E 38	N 27 E 7	S 11 E 13	N 21 E 24	N 41 E 13	N 01 W 20
10	S 20 E 28	N 28 W 14	S 56 E 14	N 72 E 7	N 07 E 29	N 26 W 16	N 08 E 30	S 02 E 21	S 11 E 24	N 10 E 24	S 76 E 14	N 01 W 15
15	S 08 E 20	N 07 W 16	S 47 E 11	N 15 E 20	N 04 E 43	N 16 W 21	N 07 E 19	S 02 E 30	S 21 E 34	N 23	N 83 E 17	N 14 W 17
20	S 08 W 13	N 09 W 15	S 64 E 9	N 01 E 26	N 20 W 27	N 27 W 21	N 29 W 11	S 02 E 28	S 08 E 34	N 22 E 23	N 72 E 12	N 14 W 14
	28 3⁴⁷ a	**28** 7⁴⁶ a	**28** 11⁴⁴ a	**28** 3⁴⁵ p	**28** 7⁴⁷ p	**28** 11⁴⁶ p	**10** 3⁴⁶ a	**10** 7⁴⁴ a	**10** 11⁴⁵ a	**10** 3⁴⁵ p	**10** 7⁴⁴ p	**10** 11⁵⁰ p
2½	0	N 11	N 14 E 20	S 32 W 7	N 33 E 13	S 23 E 32	N 27 E 48	S 11 W 18	N 85 E 7	N 34 E 25	N 49 E 14	S 87 W 9
5	N 29 E 13	N 22 E 31	N 37 E 20	S 32 W 11	N 01 E 14	S 07 E 18	N 16 E 41	S 33 W 32	S 85 E 13	N 04 E 33	N 02 W 16	S 37 W 7
10	N 50 E 9	N 03 W 33	N 47 E 20	S 13 E 33	S 67 W 16	S 19 W 28	N 17 E 44	S 34 W 28	S 11 W 16	N 05 W 11	N 16 W 15	S 22 E 26
15	N 34 E 10	N 03 E 31	S 35 W 4	S 07 E 17	N 03 E 7	S 08 W 20	N 05 E 37	S 34 W 27	S 10 W 23	N 03 W 20	N 23 W 12	S 10 W 21
20	N 09 W 15	N 11 W 27	S 68 W 9	S 10 E 14	N 50 W 11	S 11 E 21	N 07 W 31	S 54 W 27	S 10 W 22	N 24 E 12	N 11 W 8	S 22 W 14
	29 3⁴¹ a	**29** 7⁴⁵ a	**29** 11⁴⁴ a	**29** 3⁵¹ p	**29** 7⁵⁰ p	**29** 11⁴⁶ p	**11** 3⁴⁹ a	**11** 7⁴⁵ a	**11** 11⁴⁷ a	**11** 3⁴⁷ p	**11** 7⁴⁹ p	**11** 11⁴⁸ p
2½	S 06 E 34	N 73 W 9	N 01 E 22	S 26 W 33	N 03 E 7	S 82 W 23	N 14 E 48	N 01 E 44	S 10 E 11	N 08 W 36	N 02 W 19	N 10 W 13
5	S 11 E 44	N 24 E 7	N 56 E 20	S 18 W 30	N 38 E 9	S 84 E 9	N 04 E 39	N 10 W 17	S 40 W 9	N 03 E 39	N 18 E 22	N 10 W 13
10	S 14 E 54	S 34 W 11	N 24 E 13	S 11 E 14	N 40 W 21	N 66 E 16	N 51 W 13	N 12 E 17	S 20 E 24	S 89 W 10	N 24 W 21	S 15 W 25
15	S 02 E 33	N 12 W 13	N 14 E 17	S 30 E 19	N 26 E 29	N 12 E 18	N 04 E 19	N 15 E 10	S 12 E 33	N 48 W 13	N 50 W 12	S 15 W 22
20	S 09 E 18	N 06 W 14	N 11 W 13	S 19 E 23	N 24 W 19	N 53 E 10	N 03 E 20	N 30 W 16	S 06 E 37	N 08 W 15	N 36 W 14	S 06 E 19
	30 3⁴⁵ a	**30** 7¹⁶ a	**30** 11⁴² a	**30** 4¹¹ p	**30** 7⁵⁰ p	**30** 11⁴⁵ p	**12** 3⁴⁶ a	**12** 7¹⁵ a	**12** 11⁴⁶ a	**12** 3⁴⁸ p	**12** 7¹⁶ p	**12** 11⁴⁵ p
2½	S 49 W 19	N 15 W 14	N 18 E 25	N 10 W 9	N 34 E 36	N 26 W 16	N 25	N 15 E 44	N 77 E 13	S 68 E 19	N 08 W 53	N 31 W 19
5	S 80 E 16	N 15 W 40	N 02 E 29	S 85 E 11	N 18 E 48	N 29 E 27	N 21 E 28	N 16 W 39	N 56 E 9	S 88 E 24	N 08 W 48	N 41 W 20
10	N 36 W 9	N 08 E 42	N 01 W 35	N 13 W 13	N 17 E 43	N 40 E 30	S 51 E 16	N 05 E 30	N 06 W 13	S 30 W 12	N 37	N 36 W 23
15	N 04 W 20	N 11 E 44	N 42 W 19	N 39 E 6	N 10 W 46	N 30 W 25	S 78 W 11	N 17 E 36	S 40 E 14	S 40 W 12	N 29	N 54 W 6
20	N 08 E 18	N 13 E 19	N 47 W 14	N 17 W 7	N 10 W 38	N 03 E 28	N 42 W 10	N 05 E 25	S 22 E 20	S 48 E 18	N 04 W 28	S 45 E 4
	1 3⁴⁶ a	**1** 7⁵¹ a	**1** 11⁴⁴ a	**1** 3⁴² p	**1** 7⁴¹ p	**1** 11⁴⁵ p	**13** 3¹⁵ a	**13** 7¹⁵ a	**13** 11⁴⁴ a	**13** 3⁴⁴ p	**13** 7⁴⁴ p	**13** 11⁴⁵ p
2½	S 11 E 14	N 26 W 20	N 06 E 42	N 08 E 22	N 12 E 20	N 10 W 56	N 16 W 13	N 05 E 48	N 16 E 30	S 51 E 11	N 09 W 59	N 12 E 34
5	S 06 W 19	N 21 W 32	N 18 W 16	N 80 E 6	N 18 W 37	N 36	N 07 W 19	N 05 W 54	N 14	S 61 E 9	N 03 W 60	N 02 E 31
10	N 16 E 20	N 10 E 37	N 01 E 43	N 29 E 25	N 12 E 29	N 32	S 01 W 12	N 05 W 61	N 04 E 16	S 48 E 25	N 03 W 30	N 01 E 13
15	N 20	N 08 E 36	N 34 W 26	N 09 E 13	N 73 W 5	N 01 W 16	S 02 W 25	N 21 W 51	S 30 W 9	S 54 E 23	N 03 W 29	S 05 E 16
20	N 10 W 15	N 06 E 23	N 30 W 18	S 82 E 6	N 83 W 6	N 02 W 11	S 01 W 20	N 30 W 38	S 06 W 11	S 37 E 22	N 16 W 28	S 05 W 10

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende July 14—August 6 1913.

Meter	14 3^{46} a	14 7^{52} a	14 11^{43} a	14 3^{45} p	14 7^{45} p	14 11^{48} p	26 3^{40} a	26 7^{45} a	26 11^{47} a	26 3^{46} p	26 7^{46} p	26 11^{48} p
$2^1/_2$	N 47 E 11	N 06 E 58	N 46	S 29 W 11	N 15 W 59	N 22 W 34	N 14 E 33	N 12 E 48	N 14 E 14	N 05 E 34	N 06 W 43	N 15 W 30
5	N 63 W 14	N 01 E 52	N 10 W 52	S 89 W 14	N 05 W 58	N 22 W 38	N 14 E 24	N 07 E 41	N 14 E 16	N 05 E 46	N 04 E 32	N 15 W 20
10	S 06 W 19	N 01 E 47	N 10 W 40	S 08 W 19	N 05 W 49	N 40 E 17	N 12 W 12	N 10 W 31	S 42 W 8	N 05 E 37	N 04 W 20	N 28 E 23
15	S 07 W 34	N 01 E 42	N 15 E 29	S 09 E 43	N 04 W 21	S 14 E 10	N 04 E 23	N 08 W 23	S 23 W 19	N 05 E 17	N 04 W 19	S 13 E 20
20	S 27 W 27	N 07 W 23	N 23 E 22	S 09 E 42	N 04 W 20	S 22 W 10	N 04 W 27	N 11 W 15	S 17 E 19	N 09 E 11	N 04 W 19	S 01 W 24
	15 3^{45} a	**15** 7^{45} a	**15** 11^{45} a	**15** 3^{48} p	**15** 7^{46} p	**15** 11^{45} p	**27** 3^{45} a	**27** 7^{44} a	**27** 11^{51} a	**27** 3^{44} p	**27** 7^{47} p	**27** 11^{45} p
$2^1/_2$	N 39 E 9	N 10 E 33	N 09 W 59	S 85 W 9	N 15 E 40	N 12 E 53	N 40	N 08 W 59	N 13	N 15 W 24	N 28 W 11	S 79 W 24
5	N 39 E 7	N 13 E 37	N 01 E 58	S 25 W 9	N 05 E 39	N 15 E 58	N 37	N 08 W 34	S 55 E 6	N 15 W 10	N 18 W 13	N 40 W 22
10	S 30	N 07 E 13	N 02 E 36	S 10 W 19	N 64 W 8	N 04 E 36	N 11 E 31	N 08 W 37	S 74 E 6	S 38 W 10	N 08 W 20	N 39 W 23
15	S 39	N 28 W 8	N 02 E 26	S 31	N 60 W 6	N 26 W 11	N 12 E 19	N 37 W 17	S 13	S 30 W 20	N 03 E 31	S 14 W 32
20	S 38	N 35 W 11	N 04 E 18	S 05 E 28	N 80 W 5	N 68 W 11	N 14 E 11	N 07 W 14	S 10 W 19	S 30 W 26	N 25 E 33	S 13 W 22
	16 3^{44} a	**16** 7^{43} a	**16** 11^{44} a	**16** 3^{44} p	**16** 7^{44} p	**16** 11^{45} p	**28** 3^{43} a	**28** 7^{45} a	**28** 11^{44} a	**28** 3^{45} p	**28** 7^{44} p	**28** 11^{44} p
$2^1/_2$	N 08 E 18	S 79 E 25	S 68 E 19	S 26 E 20	S 82 W 13	S 29 E 33	S 09 E 33	N 27 E 46	S 80 E 30	S 43 E 86	S 13 E 85	S 16 E 69
5	S 02 E 29	S 49 E 48	S 78 E 24	S 18 E 25	S 52 W 20	N 09 W 22	N 76 W 24	N 12 E 39	S 30 E 29	S 09 W 93	S 13 E 65	S 12 E 77
10	S 12 E 58	S 07 E 45	N 70 E 18	S 07 E 34	S 20 E 29	N 30 W 20	N 56 W 22	N 51 W 28	S 03 W 38	S 09 W 90	S 13 E 43	S 13 E 68
15	S 12 E 48	S 43	S 34 W 12	S 04 W 31	S 09 E 30	N 30 W 20	S 71 W 24	N 31 W 21	S 02 W 42	S 04 E 80	S 13 E 41	S 01 E 72
20	S 01 E 67	S 06 W 36	S 10 W 13	S 27 W 26	S 12 W 27	N 30 W 22	S 16 W 26	N 56 E 12	N 10 W 49	S 04 E 55	S 13 E 40	S 01 E 67
	17 3^{45} a	**17** 7^{45} a	**17** 11^{43} a	**17** 3^{47} p	**17** 7^{45} p	**17** 11^{45} p	**29** 7^{44} a	**29** 7^{55} a	**29** 11^{44} a	**29** 3^{44} p	**29** 7^{44} p	**29** 11^{45} p
$2^1/_2$	S 08 W 59	S 02 E 71	S 13 E 43	S 05 E 25	S 13 E 24	S 33 E 11	S 20 E 151	S 10 E 94	S 20 E 161	S 85	N 04 E 36	N 10 E 40
5	S 02 E 58	S 14 W 84	S 02 E 39	S 53 E 10	S 03 E 18	N 27 E 16	S 20 E 103	S 16 E 88	S 05 W136	S 10 E 83	N 45 E 47	N 38
10	S 14 E 52	S 20 E 55	N 04 E 19	S 36 E 21	N 42 E 12	N 18 E 23	S 20 E 110	N 04 E 49	S 16 E 82	S 15 E 88	N 45 E 55	N 21 E 48
15	S 14 E 44	S 22 E 36	N 13 E 18	S 15 E 32	N 25 E 16	N 18 E 22	S 05 W 70	N 01 E 53	N 34 W 49	S 26 E 21	N 45 E 57	N 26 W 33
20	S 16 E 25	S 16 W 52	N 05 E 23	S 05 E 45	N 24 E 13	N 18 E 20	S 66 W 34	N 18 W 45	S 80 W 33	N 46 E 6	N 45 E 44	N 26 W 28
	18 3^{45} a	**18** 7^{45} a	**18** 11^{44} a	**18** 3^{45} p	**18** 7^{44} p	**18** 11^{46} p	**30** 3^{24} a	**30** 7^{45} a	**30** 11^{44} a	**30** 3^{44} p	**30** 7^{44} p	**30** 11^{18} p
$2^1/_2$	S 30 E 25	S 18 E 30	N 74 E 19	N 29 E 9	N 28 E 14	N 35 E 31	N 31 W 11	N 23 W 42	N 11 E 40	S 41 W 7	N 11 E 40	N 45 E 18
5	S 20 E 29	N 18 W 2	N 45 E 30	N 59 E 14	N 33 E 14	N 05 E 40	N 01 W 9	N 03 W 38	N 01 E 39	S 81 W 11	N 01 E 35	N 16 E 33
10	N 36 E 22	S 02 W 21	N 07 E 33	N 29 E 24	S 39 W 6	N 16 E 36	N 30 E 13	N 09 E 42	N 35	S 41 W 9	N 01 E 40	N 17 W 30
15	N 25 E 18	S 10 E 24	N 04 W 37	N 19 E 29	S 36 W 12	N 15 E 31	N 20 E 15	N 20 E 40	N 12 W 21	S 19 W 9	N 10 W 31	N 20 W 16
20	N 51 W 20	S 62 W 8	N 11 W 36	N 07 E 24	S 38 W 13	N 16 E 21	N 20 E 10	N 20 E 39	N 52 W 19	S 19 W 8	N 01 E 24	N 36 W 11
	19 3^{44} a	**19** 7^{44} a	**19** 11^{45} a	**19** 3^{46} p	**19** 7^{48} p	**19** 11^{58} p	**31** 3^{44} a	**31** 7^{44} a	**31** 11^{46} a	**31** 3^{44} p	**31** 7^{49} p	**31** 11^{50} p
$2^1/_2$	S 20 W 9	S 18 E 26	N 78 E 13	S 28 E 33	S 38 E 80	S 16 E 33	N 57 E 11	N 35 E 21	N 22 E 53	S 40 W 9	N 12 E 40	N 22 E 40
5	N 30 W 11	S 24 E 20	S 80 E 16	S 08 E 53	S 38 E 57	S 16 E 39	S 47 W 14	N 16 E 21	N 12 E 58	N 60 W 14	N 19 W 39	N 10 E 39
10	N 50 E 7	S 12 E 28	S 86 W 12	S 08 E 44	S 11 E 49	S 05 E 31	S 36 E 11	N 03 E 9	N 22 W 44	N 03 E 11	S 60 W 11	N 02 W 45
15	N 50 E 9	S 12 E 33	N 20 E 19	S 36	S 10 E 36	S 08 W 22	S 35 E 14	S 38 W 11	N 12 W 28	S 22 E 10	S 15 W 11	N 12 W 44
20	N 74 W 11	S 12 E 21	N 05 W 8	S 01 W 28	S 06 W 34	S 16 W 8	S 14 E 18	N 46 W 10	N 68 W 11	S 20 E 14	N 80 W 5	N 15 W 22
	20 3^{50} a	**20** 7^{48} a	**20** 11^{45} a	**20** 3^{45} p	**20** 7^{44} p	**20** 11^{45} p	**1** 3^{42} a	**1** 7^{44} a	**1** 11^{44} a	**1** 3^{44} p	**1** 7^{44} p	**1** 11^{44} p
$2^1/_2$	S 02 E 74	S 23 E 64	S 13 E 32	S 64 W 27	S 19 W 14	N 19 E 13	N 63 W 22	N 08 W 33	N 11 E 40	N 41 W 17	N 41	N 10 E 53
5	S 02 E 74	S 08 W 78	S 08 W 31	S 03 W 26	S 01 E 30	N 01 W 16	N 79 W 21	N 14 W 26	N 01 E 53	N 30 W 20	N 05 E 28	N 01 W 54
10	S 14 E 59	S 14 E 73	N 30 W 25	S 18 E 28	S 01 E 38	N 09 W 27	S 39 W 21	S 16 E 10	N 01 E 57	S 68 W 7	N 88 W 4	N 12 W 43
15	S 10 W 61	S 10 W 56	N 29 W 22	S 04 W 23	S 01 E 32	N 20 E 33	S 04 E 24	S 07 E 20	N 12 E 42	S 07 E 15	S 09 W 20	N 40 W 32
20	S 20 W 47	S 23 W 51	N 29 E 25	S 04 W 25	S 01 E 20	N 21 E 38	S 16 W 28	S 10 W 22	N 15 E 21	S 05 E 20	S 01 W 10	N 38 W 35
	21 3^{50} a	**21** 7^{44} a	**21** 11^{45} a	**21** 3^{43} p	**21** 7^{45} p	**21** 11^{45} p	**2** 3^{45} a	**2** 7^{44} a	**2** 11^{44} a	**2** 3^{44} p	**2** 7^{44} p	**2** 11^{48} p
$2^1/_2$	S 38 W 11	S 71 W 20	N 14 E 16	N 24 E 16	N 34 E 16	N 17 E 33	N 12 E 22	N 09 W 37	N 10 W 48	N 11 E 24	N 12 E 45	N 09 E 48
5	S 18 W 21	S 16	S 16 E 16	N 14 E 20	N 30 E 19	N 17 E 37	N 12 E 20	N 04 W 39	N 01 E 52	N 01 E 28	N 08 W 38	N 01 W 52
10	S 05 W 22	S 20 E 25	N 26 W 20	N 14 E 24	N 20 E 23	N 07 E 35	N 28 E 6	S 15 E 15	N 11 E 53	N 11 W 13	N 04 E 41	N 01 W 46
15	S 04 E 19	S 42 E 21	N 10 W 25	N 14 E 28	N 20 E 31	N 07 E 34	S 03 W 15	S 08 W 19	N 25 E 30	S 19 E 10	S 27 W 20	N 02 W 25
20	S 14 W 16	S 64 E 19	N 01 W 28	N 03 E 33	N 26 E 37	N 07 E 25	S 03 W 19	S 08 W 20	N 04 W 27	S 02 W 16	S 15 W 20	N 01 W 33
	22 3^{50} a	**22** 7^{44} a	**22** 11^{45} a	**22** 3^{44} p	**22** 7^{44} p	**22** 11^{46} p	**3** 3^{44} a	**3** 7^{44} a	**3** 11^{44} a	**3** 3^{44} p	**3** 7^{46} p	**4** 12^{05} a
$2^1/_2$	N 15 E 7	N 27 W 11	N 11 W 11	N 04 E 9	N 51 W 9	N 07 E 20	N 15 E 30	S 81 E 21	N 47 E 34	S 79 E 39	S 78 E 26	N 38 E 40
5	N 25 E 14	N 17 E 9	S 74 W 9	N 16 W 9	N 61 W 9	N 27 W 7	N 49 W 11	S 43 E 30	N 16 E 34	N 70 E 33	S 13 W 39	N 05 E 15
10	N 39 E 19	N 36 E 11	S 54 E 14	S 04 W 30	S 16 E 24	S 60 E 11	S 30 W 6	S 22	N 20 W 31	S 11 E 24	S 08 E 41	N 39 E 32
15	N 04 W 22	N 48 E 16	S 33 E 14	N 40 W 14	S 16 E 23	S 26 E 6	S 04 E 24	S 12 W 25	N 27 W 27	S 03 E 29	S 20 E 41	N 08 W 23
20	N 26 W 22	N 61 W 9	S 80 W 6	N 13 W 17	S 10 E 17	S 36 W 6	S 05 E 26	S 12 W 22	N 27 W 26	S 12 E 21	S 19 E 39	N 05 E 22
	23 3^{51} a	**23** 7^{45} a	**23** 11^{44} a	**23** 3^{44} p	**23** 7^{45} p	**23** 11^{44} p	**4** 3^{45} a	**4** 7^{46} a	**4** 11^{49} a	**4** 3^{45} p	**4** 7^{46} p	**4** 11^{45} p
$2^1/_2$	N 03 E 33	S 16 E 6	S 05 W 11	N 11 E 34	N 30 E 24	N 38 E 20	N 71 E 20	S 07 E 27	N 20 E 13	N 7	S 20	N 18 W 30
5	N 03 E 24	S 14 W 6	S 49 W 13	N 11 E 23	N 30 E 26	N 38 E 16	N 71 E 16	S 10 W 29	N 14 E 24	S 46 E 6	S 02 E 13	N 18 W 44
10	N 09 E 23	S 04 W 7	S 09 E 27	N 22 W 17	S 64 E 9	N 58 E 15	N 62 W 13	S 35	N 78 W 7	S 53 E 9	S 03 W 14	N 09 E 34
15	N 21 E 16	S 53 E 11	S 03 W 28	N 14	N 41 E 17	N 58 E 19	S 40 E 25	S 12 W 30	N 13 W 6	S 23 E 20	S 03 W 25	N 09 E 37
20	N 23 E 13	S 54 W 7	S 18 W 21	N 8	N 17 E 14	N 48 E 17	S 25 E 24	S 13 E 25	S 78 W 7	S 25 E 20	S 12 E 8	N 09 E 32
	24 3^{48} a	**24** 7^{44} a	**24** 11^{44} a	**24** 3^{44} p	**24** 7^{44} p	**24** 11^{44} p	**5** 3^{48} a	**5** 7^{52} a	**5** 11^{42} a	**5** 3^{58} p	**5** 7^{47} p	**5** 11^{48} p
$2^1/_2$	N 14 E 51	N 25 W 59	N 11 W 30	N 26 W 32	N 71 W 9	N 52 E 11	S 54 W 6	0	N 51 W 14	N 07 E 30	N 20 W 13	N 17 E 72
5	N 14 E 41	N 07 E 31	N 20 W 29	N 16 W 32	N 71 W 9	0	S 48 W 6	S 34 E 11	N 07 E 27	N 25 E 10	N 40 W 16	N 10 W 90
10	N 09 E 45	N 07 E 28	N 10 W 22	N 06 E 28	N 71 W 14	S 08 E 16	N 48 E 7	0	N 14 E 28	S 04 W 2	N 45 W 20	N 10 W 85
15	N 16 W 33	N 25	N 10 W 20	N 01 W 27	N 39 W 11	S 02 W 27	S 81 E 9	S 68 W 9	N 09 E 43	S 78 E 8	N 26 W 10	N 01 E 54
20	N 04 W 28	N 64 W 26	N 10 W 20	N 02 W 25	S 45 E 12	S 02 W 28	S 64 E 6	N 86 W 13	N 04 W 34	S 78 E 8	N 49 W 10	N 18 E 38
	25 3^{50} a	**25** 7^{44} a	**25** 11^{44} a	**25** 3^{49} p	**25** 7^{45} p	**25** 11^{45} p	**6** 3^{45} a	**6** 7^{47} a	**6** 11^{42} a	**6** 3^{46} p	**6** 7^{46} p	**6** 11^{45} p
$2^1/_2$	N 33 E 26	N 18 E 14	S 29 E 9	N 01 E 19	N 03 W 11	S 35 E 6	N 15 W 27	N 12 W 27	N 02 W 53	N 12 W 30	N 41 W 14	N 11 E 35
5	N 33 E 29	N 33 W 13	N 11 E 6	N 52 E 30	N 07 E 13	S 21 E 11	N 05 W 4	N 18 E 4	N 02 W 20	N 22 E 27	S 37 W 6	N 14 E 47
10	S 08 W 23	N 22 E 15	S 43 E 11	N 63 E 28	N 28 E 16	S 26 E 16	N 20 E 7	S 60 W 8	S 72 E 4	N 30 E 19	S 08 E 26	N 75 W 15
15	N 03 E 21	N 23 E 12	S 02 E 19	N 45 E 21	N 24 E 16	S 05 E 18	N 66 W 29	S 05 W 29	S 15 W 8	S 15 E 7	S 08 W 39	N 36 W 18
20	N 86 W 23	N 01 E 8	S 02 E 18	N 44 E 18	N 24 E 14	S 16 E 14	N 44 W 24	S 10 W 27	S 24 E 8	S 39 W 7	S 03 W 31	N 24 W 14

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende August 7—30 1913.

Meter	7 3^{46} a	7 7^{46} a	7 11^{44} a	7 4^{14} p	7 7^{46} p	7 11^{47} p	19 3^{48} a	19 7^{50} a	19 11^{41} a	19 3^{48} p	19 7^{44} p	19 11^{48} p
2½	N 12 E 33	N 18 W 19	N 37 E 19	N 17 W 36	N 41 E 20	N 27 E 29	S 01 W 21	N 30 E 6	N 15 E 14	N 85 E 7	S 18 E 14	N 52 E 14
5	N 09 W 30	S 18 E 1	N 70 E 21	N 22 E 53	N 30 E 23	N 18 E 33	N 41 E 25	E 9	N 57 E 13	S 66 E 9	S 22 E 9	N 84 E 19
10	N 10 W 23	S 23 E 32	S 18 E 14	N 12 E 50	N 26 W 10	N 29 E 30	N 40 E 28	S 15 E 16	N 29 E 5	N 07 E 6	S 41 E 4	N 01 E 21
15	N 33 W 20	S 05 W 46	S 01 W 11	N 15 E 32	N 20 E 7	N 04 E 22	N 30 E 31	N 15 E 14	N 05 W 13	N 23 W 7	S 31 E 14	N 43 W 15
20	N 09 W 12	S 02 W 35	N 17 W 11	N 24 W 32	S 69 W 9	N 57 W 14	N 12 W 20	N 38 E 9	N 10 W 6	S 02 E 16	S 26 E 17	N 38 W 12
	8 3^{50} a	8 7^{46} a	8 11^{46} a	8 3^{56} p	8 7^{47} p	8 11^{48} p	20 3^{44} a	20 7^{48} a	20 11^{44} a	20 3^{49} p	20 7^{45} p	20 11^{44} p
2½	N 19 W 53	N 16 W 33	N 33 W 11	N 19 E 38	N 20 E 34	N 22 E 29	N 22 E 11	N 14 E 7	S 01 E 20	S 48 W 9	S 27 E 14	N 61 E 19
5	N 19 W 55	N 29 W 27	S 72 W 9	N 02 E 43	S 43 E 11	S 31 E 16	N 62 E 11	S 36 E 11	S 03 E 25	S 58 E 9	S 40 E 19	N 61 E 19
10	N 20 E 30	S 05 W 17	S 07 W 33	S 07 W 6	S 23 E 40	S 07 W 40	N 22 E 14	N 78 E 9	S 08 W 20	S 55 E 24	N 13 W 6	N 22 W 20
15	N 18 W 31	S 06 W 32	S 08 E 54	N 36 W 4	S 03 W 34	S 03 E 52	S 30 E 14	S 09 W 22	S 08 W 20	S 06 W 10	S 25 E 20	S 14 W 13
20	N 04 W 28	S 06 W 36	S 04 W 27	S 78 W 11	S 13 W 23	S 13 E 57	S 05 E 19	S 09 W 33	N 84 E 5	S 10 W 20	S 14 E 25	N 32 W 14
	9 3^{49} a	9 7^{49} a	9 11^{46} a	9 3^{48} p	9 7^{54} p	9 11^{52} p	21 3^{46} a	21 7^{46} a	21 11^{48} a	21 3^{44} p	21 7^{42} p	21 11^{46} p
2½	N 22 E 25	S 44 W 20	0	N 80 E 36	N 15 E 30	N 85 E 13	N 03 W 11	N 29 E 7	N 13 W 9	N 14 E 19	N 08 E 6	N 35 E 20
5	S 78 W 18	S 31 W 34	S 30 E 25	N 75 E 19	N 04 E 8	S 02 E 24	N 09 W 18	N 21 W 9	N 10 E 11	N 30 E 19	N 18 E 20	N 26 E 36
10	S 18 W 16	S 17 W 26	S 10 E 66	S 76 W 4	S 12 E 12	S 02 E 33	N 14 E 15	N 37 W 9	N 22 E 4	N 45 E 16	S 42 W 8	S 13 E 30
15	S 51 W 16	S 16 W 23	S 41	N 43 W 9	S 67 W 12	S 05 E 37	N 38 E 20	S 20 W 13	S 30 W 11	S 05 W 14	S 08 W 25	S 10 E 32
20	N 73 W 10	S 06 W 19	S 14 W 34	N 19 W 23	N 55 W 13	S 06 W 35	N 66 W 5	S 10 W 14	S 36 W 7	S 14 W 13	S 01 E 14	S 25 W 16
	10 3^{45} a	10 7^{50} a	10 11^{49} a	10 3^{48} p	10 7^{50} p	10 11^{45} p	22 3^{44} a	22 7^{44} a	22 11^{32} a	22 3^{58} p	22 8^{06} p	22 11^{45} p
2½	N 34 E 51	N 31 E 55	N 11 E 16	N 10 E 38	N 03 W 64	N 51 W 9	N 38 E 16	N 16 E 29	N 17 E 46	N 14 E 81	N 14 E 16	S 52 E 20
5	N 34 E 35	N 10 E 54	N 33 W 27	N 06 E 41	N 05 W 65	N 51 W 11	N 28 E 30	N 14 E 27	N 07 E 50	N 14 E 83	N 07 E 16	S 42 E 20
10	N 45 W 16	N 09 E 53	S 29 E 2	S 04 W 12	N 08 E 25	S 29 W 16	S 09 W 19	S 15 E 30	S 06 E 29	N 14 E 22	S 22 E 56	S 22 E 44
15	N 26 W 22	N 11 W 36	S 29 E 2	S 19 W 20	N 25 E 9	S 09 W 24	S 47 W 20	S 04 E 8	S 05 E 22	N 14 E 41	S 10 E 84	S 65 E 38
20	N 10 E 30	N 27 W 28	S 38 W 9	S 8	S 70 W 11	S 02 E 25	S 38 W 13	S 11	S 19 W 6	N 14 E 28	S 16 E 82	S 63 E 44
	11 3^{47} a	11 7^{48} a	11 11^{46} a	11 3^{48} p	11 7^{44} p	11 11^{48} p	23 3^{47} a	23 7^{45} a	23 11^{46} a	23 3^{44} p	23 7^{39} p	23 11^{48} p
2½	N 13 W 19	N 09 W 36	N 14 E 9	N 48 E 21	N 09 E 43	N 08 W 21	N 04 E 13	N 05 E 29	N 07 E 46	N 26 E 36	N 10 E 36	N 54 E 11
5	N 23 W 11	N 18 W 59	N 24 E 20	S 48 W 1	N 01 W 39	N 07 W 24	N 36 E 19	N 16 E 33	N 08 W 32	N 04 W 24	N 09 W 21	N 39 E 13
10	S 04 E 15	N 13 W 34	S 20 W 18	S 04 W 21	N 19 W 30	S 27 E 15	S 26 E 46	S 13 E 22	S 02 W 43	S 02 E 37	S 20 E 30	S 26 E 56
15	S 07 W 19	N 07 E 24	S 10 W 14	S 29	N 05 E 27	S 26 W 19	S 20 E 33	S 08 E 26	S 08 E 40	S 12 W 20	S 04 E 24	S 20 E 57
20	S 20 E 12	N 17 W 22	S 25 W 14	S 01 E 30	N 05 E 27	S 22 W 26	S 08 W 19	S 06 E 14	S 47 W 17	S 09 W 8	S 18 W 11	S 03 W 45
	12 3^{45} a	12 7^{50} a	12 11^{55} a	12 3^{52} p	12 7^{48} p	12 11^{46} p	24 3^{48} a	24 7^{44} a	24 11^{44} a	24 3^{48} p	24 7^{40} p	24 11^{44} p
2½	N 27 E 16	N 11 E 68	N 12 W 23	S 41 W 7	N 09 E 64	N 01 E 33	N 03 W 9	N 10 E 16	N 32 W 6	N 03 W 37	N 03 W 40	N 01 E 16
5	S 03 E 13	N 05 E 56	N 02 W 29	S 82 W 11	N 04 W 69	N 01 E 53	N 63 W 7	N 13 E 16	N 20 E 11	N 02 E 44	N 10 E 49	S 61 W 16
10	S 03 E 33	N 10 W 23	N 09 E 24	S 07 W 44	N 24 W 22	N 14 E 21	S 35 E 39	S 08 W 20	S 10 E 20	N 40 W 3	N 14 E 25	S 31 W 25
15	S 05 W 39	N 10 E 30	N 18 E 36	S 13 W 44	N 04 W 31	N 04 E 13	S 35 E 42	S 76 W 6	S 06 W 16	N 03 E 19	N 06 W 19	S 15 W 35
20	S 05 E 30	N 06 W 26	N 02 W 47	S 16 W 30	N 03 E 24	N 89 W 15	S 07 W 32	N 74 W 6	S 08 E 5	N 10 W 28	N 21 W 15	S 20 W 38
	13 3^{44} a	13 7^{49} a	13 11^{44} a	13 3^{50} p	13 7^{47} p	13 11^{49} p	25 3^{51} a	25 7^{44} a	25 11^{48} a	25 3^{44} p	25 7^{38} p	25 11^{42} p
2½	N 13 W 20	N 12 E 40	N 13 W 33	S 03 E 6	N 06 W 33	N 30 E 34	N 03 E 20	N 05 W 19	S 15 W 6	N 18 E 14	N 17 E 20	N 39 W 11
5	S 05 W 13	N 05 W 32	N 38 E 25	S 17 W 22	N 26 W 27	N 32	N 16 E 20	N 10 W 21	S 06 E 6	N 29 E 14	N 16 E 23	S 11 W 16
10	S 61	S 75 W 2	S 24 E 10	S 05 W 48	S 05 E 7	N 11 E 13	S 12 W 14	S 20 W 5	S 16 E 48	S 07 E 15	S 80 W 5	S 36
15	S 05 E 68	S 5	S 17 W 3	S 42	S 28 W 6	N 13 W 18	N 22 W 12	N 21 W 13	S 04 E 17	N 30 W 13	N 23 W 10	S 04 E 25
20	S 03 W 50	S 67 W 9	S 17 W 3	S 10 W 28	N 41 E 4	N 35 W 23	N 07 E 10	N 09 W 13	S 11 E 19	N 10 W 14	N 63 W 4	S 25 W 18
	14 3^{44} a	14 7^{47} a	14 11^{42} a	14 3^{50} p	14 7^{52} p	14 11^{46} p	26 3^{45} a	26 7^{42} a	26 11^{39} a	26 3^{48} p	26 7^{38} p	26 11^{45} p
2½	N 09 W 18	N 07 E 44	N 27 E 42	N 08 W 33	N 42	N 19 E 55	N 15 E 20	N 02 E 48	S 87 E 6	N 04 E 16	N 10 W 43	S 80 W 6
5	S 50 E 16	S 07 W 3	N 18 E 24	N 48 E 8	N 06 E 32	N 01 W 56	N 15 E 29	N 02 E 52	S 80 W 7	N 10 E 21	N 01 E 44	S 40 W 7
10	S 09 E 25	S 73 W 8	N 32 E 20	S 04 E 14	N 10 E 8	N 02 W 47	S 40 W 12	N 08 E 42	S 36 W 6	S 40 W 8	N 04 W 48	S 40 W 7
15	S 01 W 26	N 58 W 7	N 20 E 27	S 43 E 9	N 06 W 16	N 01 W 43	N 17 W 21	N 05 E 40	S 66 W 6	S 38 W 8	N 11 E 52	S 01 E 14
20	S 01 W 24	N 06 E 19	N 05 W 19	S 2	N 07 E 18	N 16 W 30	N 07 E 19	N 36 W 22	S 06 W 7	N 44 W 5	N 26 W 36	S 10 W 17
	15 3^{46} a	15 7^{48} a	15 11^{41} a	15 3^{43} p	15 7^{44} p	15 11^{48} p	27 3^{45} a	27 7^{46} a	27 11^{50} a	27 3^{46} p	27 7^{34} p	27 11^{45} p
2½	N 07 W 19	N 28 E 29	N 19 E 38	N 35 W 22	N 53 W 17	N 35 W 40	N 27 E 11	N 01 E 43	N 86 W 7	S 22 W 9	N 05 E 8	N 77 W 6
5	N 04 E 20	N 19 E 15	N 19 E 43	N 10 W 27	N 07 W 32	N 04 W 46	N 33 W 7	N 04 W 44	S 84 W 7	N 25 W 6	N 10 E 43	N 87 W 7
10	N 86 W 7	S 37 W 13	N 13 E 26	N 30 E 7	N 56 E 15	N 17 E 47	S 53 E 21	N 01 E 52	N 65 W 9	S 20 E 45	N 09 W 29	S 45 W 7
15	S 51 W 6	S 09 W 14	N 06 E 20	N 76 E 7	N 65 E 10	N 18 E 33	S 18	N 14 E 35	S 52 W 9	S 07 E 39	N 09 W 34	S 76 W 7
20	S 43 W 7	S 26 E 6	N 07 W 18	N 86 E 5	N 62 E 13	N 14 W 31	S 10 W 15	N 18 W 33	S 20 W 9	S 35 W 36	N 04 E 27	S 40 W 7
	16 3^{44} a	16 7^{50} a	16 11^{47} a	16 3^{46} p	16 7^{44} p	16 11^{44} p	28 3^{48} a	28 7^{44} a	28 11^{42} a	28 3^{50} p	28 7^{45} p	28 11^{44} p
2½	N 40 W 25	S 89 W 20	N 14 E 25	N 03 E 33	N 20 E 19	N 49 W 33	N 68 W 7	N 01 W 55	N 10 W 29	N 15 E 6	N 30 E 50	N 02 E 33
5	N 29 W 29	N 80 W 21	N 02 E 46	N 06 E 33	N 08 W 24	N 11 E 53	S 12 W 16	N 11 W 27	N 37	N 40 W 6	N 25 E 51	N 02 E 34
10	N 20 W 14	N 67 E 15	N 19 E 69	N 03 E 31	N 08 W 28	N 06 W 57	S 10 E 34	N 13	N 24 E 5	S 05 W 36	N 35 W 27	N 02 E 21
15	N 16 E 14	S 73 E 2	N 13 W 52	N 08 W 34	N 12 W 29	N 06 W 55	S 12 W 36	N 06 W 39	N 03 W 5	S 05 W 41	N 16 W 25	N 09 W 22
20	N 40 E 15	N 77 E 8	N 03 W 39	N 01 E 20	N 13 E 21	N 18 W 46	S 12 W 26	N 06 E 32	S 52 W 6	S 08 E 17	N 05 W 26	N 23 W 17
	17 3^{46} a	17 7^{50} a	17 11^{44} a	17 3^{43} p	17 7^{48} p	17 11^{46} p	29 3^{48} a	29 7^{44} a	29 11^{42} a	29 4^{12} p	29 7^{42} p	29 11^{45} p
2½	S 23 E 21	S 02 E 40	S 09 E 29	S 21 W 25	S 13 E 36	N 74 E 21	N 62 E 6	N 01 W 38	N 05 E 34	N 57 W 6	N 02 W 46	N 03 W 42
5	S 29 E 18	S 16 E 35	S 24 E 25	S 02 W 53	S 30 E 39	N 34 E 31	N 52 E 7	N 04 E 32	N 10 E 37	N 57 W 6	N 04 E 31	N 18 E 46
10	N 36 W 28	N 78 E 20	N 34 E 9	S 12 W 40	S 18 E 25	N 34 E 24	S 03 E 29	S 49 W 6	N 05 E 29	S 27 E 19	S 74 W 4	N 02 W 33
15	N 34 W 34	N 59 E 23	N 31 E 49	S 36	S 11 E 30	N 02 E 27	S 17 W 39	N 15 W 8	N 05 E 20	S 06 E 21	N 09 W 11	N 09 W 29
20	N 52 E 21	N 18 W 13	N 20 W 42	S 01 E 30	N 05 W 18	N 25	S 17 W 30	N 16	N 17 W 16	S 15 W 24	N 06 E 11	N 16 W 20
	18 3^{44} a	18 7^{49} a	18 11^{44} a	18 3^{48} p	18 7^{46} p	18 11^{45} p	30 3^{45} a	30 7^{46} a	30 11^{48} a	30 3^{45} p	30 7^{39} p	30 11^{45} p
2½	S 19 E 21	S 30 E 46	S 50 E 14	S 20 E 50	S 15 E 33	N 21 E 18	N 12 W 16	N 09 E 34	N 08 E 57	N 03 W 13	N 10 E 21	N 09 E 40
5	S 30 E 29	S 32 E 42	N 77 E 9	S 27 E 48	S 31 E 44	N 11 E 21	S 16 W 7	N 20 E 39	N 10 E 67	N 03 W 20	N 15 E 37	N 01 W 34
10	S 30 E 14	S 05 E 46	S 35 E 14	S 16 E 33	S 37 E 38	N 21 W 26	S 13 E 16	S 32 E 6	N 15 W 47	N 09 E 16	S 09 W 11	N 10 E 29
15	S 20 E 20	S 26 E 43	N 22 W 15	S 26 E 28	S 08 W 16	N 27 E 38	S 08 W 21	S 33 E 5	N 02 W 40	S 12 E 13	S 01 W 11	N 10 E 37
20	S 07 E 23	N 27 E 8	N 13 W 20	S 02 W 20	N 10 E 17	N 22 E 30	S 02 E 24	S 52 W 7	N 02 W 35	S 12 E 15	S 26 W 8	N 10 E 39

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende August 31—September 23 1913.

Meter	31 3^{44} a	31 7^{44} a	31 11^{42} a	31 3^{44} p	31 7^{40} p	31 11^{49} p	12 3^{44} a	12 7^{44} a	12 11^{44} a	12 3^{44} p	12 7^{44} p	12 11^{44} p
$2^1/_2$	N 04 E 20	N 18 E 30	N 13 E 80	N 01 W 31	N 02 E 44	N 10 W 53	S 17 W 6	N 31 E 20	N 05 E 33	N 23 E 19	N 09 W 39	N 09 W 41
5	N 40 E 25	N 24 E 34	N 10 E 76	N 11 W 30	N 13 E 36	N 10 W 45	S 03 E 19	N 06 W 13	N 10 W 33	N 08 W 21	N 11 E 43	N 09 W 44
10	S 06 E 15	S 22 E 19	N 04 E 31	N 09 W 2	S 37 E 10	N 10 W 42	S 14 E 39	S 54 E 16	N 22 W 21	S 13 W 31	S 23 E 29	N 09 W 24
15	S 03 W 16	S 10 E 10	N 43	S 28 W 6	S 35 W 9	N 06 W 36	S 02 E 38	S 10 E 20	N 10 W 22	S 07 E 39	S 24 E 32	N 36 W 20
20	S 18	S 64 W 7	N 22 W 28	N 83 E 5	S 57 W 6	N 10 W 37	S 02 E 44	S 04 E 24	N 34 W 20	S 07 E 40	S 14 W 32	N 59 W 21
	1 3^{42} a	**1** 7^{45} a	**1** 11^{42} a	**1** 3^{47} p	**1** 7^{42} p	**1** 11^{44} p	**13** 3^{44} a	**13** 7^{44} a	**13** 11^{44} a	**13** 3^{44} p	**13** 7^{44} p	**13** 11^{45} p
$2^1/_2$	N 10 E 20	N 07 E 20	N 15 W 53	N 29 E 4	N 13 E 6	N 12 W 29	N 01 E 20	N 22 W 25	N 34	N 10 W 39	N 18 E 74	N 05 E 76
5	S 29 W 7	N 28 W 14	N 05 W 56	S 47 E 6	N 20 W 20	N 09 E 41	N 01 E 30	N 02 W 31	N 10 E 36	N 31 E 40	N 08 E 69	N 05 W 89
10	S 10 W 14	S 24 W 15	N 10 W 25	S 47 E 9	S 24 E 16	N 08 E 29	S 02 W 13	S 28 E 20	N 24 W 23	N 20 E 42	N 14 W 17	N 43
15	S 10 W 22	S 20	N 05 E 21	S 06 E 20	S 30 E 9	N 04 W 26	S 11 W 25	S 14 E 31	N 23	S 08 W 28	S 16 E 31	N 42
20	S 10 W 23	S 14 W 14	N 18 W 21	S 07 E 20	S 60 E 7	N 04 W 21	S 02 W 39	S 05 E 35	N 12 W 20	S 04 E 37	N 34 W 17	N 33
	2 3^{44} a	**2** 7^{46} a	**2** 11^{41} a	**2** 3^{47} p	**2** 7^{44} p	**2** 11^{47} p	**14** 3^{47} a	**14** 7^{44} a	**14** 11^{44} a	**14** 3^{47} p	**14** 7^{44} p	**14** 11^{46} p
$2^1/_2$	N 65 W 24	S 14 W 33	N 11 W 19	S 11 W 36	S 24 E 38	N 80 W 16	N 16 W 59	N 42 W 91	N 13 W 91	N 26 W 58	N 07 E 53	N 19 E 70
5	S 34 E 10	S 32	N 08 W 33	S 07 E 39	S 29 E 39	N 14 E 40	N 06 W 69	N 21 W 87	N 09 E 78	N 06 W 58	N 10 E 52	N 19 E 73
10	S 28 E 11	S 02 W 34	N 17 E 36	S 25 W 43	S 44 E 45	N 21 E 86	N 13 W 37	E 4	N 08 E 75	N 06 E 41	S 01 W 30	N 14 W 56
15	S 24	S 30	N 06 E 45	N 11 E 9	N 12 W 37	N 12 E 85	N 01 E 18	S 40 E 10	N 10 E 64	S 07 E 31	S 01 W 33	N 18 W 33
20	S 01 W 24	S 15 W 20	N 47	S 44 E 19	N 10 W 33	N 01 E 42	S 02 E 24	N 31 E 10	N 10 W 71	S 51 E 14	S 01 W 34	N 05 W 23
	3 3^{45} a	**3** 7^{46} a	**3** 11^{48} a	**3** 3^{48} p	**3** 7^{46} p	**3** 11^{48} p	**15** 3^{45} a	**15** 7^{45} a	**15** 11^{44} a	**15** 3^{44} p	**15** 7^{45} p	**15** 11^{48} p
$2^1/_2$	S 05 W 20	S 16 E 40		S 07 E 16	S 19 W 19	N 32 W 44	N 02 W 33	N 14 E 70	N 15 E 80	N 59 W 9	N 28 W 53	N 22 W 94
5	N 64 W 25	S 08 E 39	N 18 W 49	S 45 E 21	S 21 W 21	N 10 E 41	N 09 E 50	N 04 E 90	N 15 E 87	N 19 W 24	N 34 E 59	N 21 E 92
10	N 78 E 17	S 17 E 23	N 04 E 52	N 34 W 33	S 08 W 25	N 20 E 35	N 09 E 57	N 38 W 32	N 15 E 88	N 19 W 40	S 27 E 30	N 23 E 44
15	S 84 W 19	N 12 E 22	N 12 E 89	S 08 E 22	S 74 E 14	N 42 E 37	N 09 E 19	N 05 W 27	N 13 W 41	S 28 E 16	S 02 E 33	N 34 E 20
20	S 12 W 27	N 16 E 27	N 07 W 66	S 24 E 21	N 20 W 20	N 32 E 30	S 09 E 32	N 22 W 23	N 22 W 24	S 20 E 20	S 02 E 30	N 34 E 20
	4 3^{50} a	**4** 7^{48} a	**4** 11^{46} a	**4** 3^{44} p	**4** 7^{44} p	**4** 11^{39} p	**16** 3^{47} a	**16** 7^{46} a	**16** 11^{46} a	**16** 3^{44} p	**16** 7^{44} p	**16** 11^{46} p
$2^1/_2$	N 23 W 40	N 85 E 16	N 23 W 14	N 05 W 17	S 04 W 17	N 04 E 8	N 37 W 80	N 22 W 72	N 43 W 93	N 45 W 43	N 34 E 14	N 09 E 91
5	N 08 E 47	N 28	N 25 W 29	N 08 E 38	S 04 E 14	N 01 W 21	N 05 E 86	N 20 E 58	N 20 E 90	N 20 E 23	N 39 E 19	N 08 W 78
10	N 14 E 51	N 23 E 41	N 18 W 52	N 35 E 30	S 34 W 19	N 01 W 30	N 37 E 66	S 16 E 32	N 20 E 65	S 10 W 20	S 22 E 39	S 24 W 28
15	N 04 W 35	S 23 E 23	N 26 E 28	S 47 E 12	S 10 E 45	N 01 W 23	N 89 W 10	S 16 E 32	N 30 E 20	S 16	S 19 E 42	S 35 W 31
20	N 10 W 33	S 15 E 20	N 31 E 18	S 63 E 11	S 08 E 37	N 01 W 22	N 59 W 6	N 18 W 20	N 26 E 29	S 40 W 19	S 19 E 42	S 04 W 24
	5 3^{45} a	**5** 7^{46} a	**5** 11^{44} a	**5** 3^{45} p	**5** 7^{44} p	**5** 11^{44} p	**17** 3^{45} a	**17** 7^{44} a	**17** 11^{47} a	**17** 3^{44} p	**17** 7^{44} p	**17** 11^{44} p
$2^1/_2$	N 11 W 40	S 74 W 16	N 85 W 20	N 16 W 45	N 06 W 13	N 75 E 13	N 19 E 33	S 37 E 72	S 03 E 25	S 09 E 48	S 25	N 03 E 11
5	N 44	N 74 E 16	N 15 W 28	N 26 E 43	N 04 E 16	N 66 E 17	N 19 E 39	S 04 W 75	S 07 W 20	S 09 E 59	S 10 E 29	N 83 E 19
10	N 10 E 44	N 26 E 24	N 06 E 38	N 14 E 26	S 11 W 8	S 18 W 16	S 14 W 48	S 07 E 67	S 14 E 59	S 02 W 69	S 44	N 40 E 12
15	N 40 W 23	N 25 E 29	N 14 E 42	N 16 E 13	S 35 W 34	S 08 E 19	S 10 W 53	S 07 E 66	S 13 E 64	S 01 W 77	S 28	N 06 E 23
20	N 01 W 20	N 26 E 10	S 02 E 16	N 16 E 13	S 35 W 40	S 30 E 20	S 06 E 48	S 07 E 68	S 02 E 48	S 16 W 50	S 20 E 19	N 06 E 31
	6 3^{44} a	**6** 7^{44} a	**6** 11^{45} a	**6** 3^{45} p	**6** 7^{45} p	**6** 11^{48} p	**18** 3^{46} a	**18** 7^{44} a	**18** 11^{44} a	**18** 3^{44} p	**18** 7^{44} p	**18** 11^{45} p
$2^1/_2$	N 02 W 38	N 16 W 16	N 11 E 13	N 05 W 23	N 21 E 13	N 89 E 7	S 63 E 7	N 36 W 9	N 22 W 19	N 65 W 11	N 79 W 14	N 30 W 26
5	N 02 W 59	N 16 E 24	N 11 E 20	N 06 E 37	N 02 E 9	N 84 E 9	S 33 E 11	S 31 W 20	S 22 E 11	S 65 W 9	N 79 W 11	N 18 W 18
10	N 20 E 39	N 15 E 31	N 11 E 32	N 15 E 34	S 19 E 14	S 10 W 20	N 77 E 16	N 18 W 13	N 22 W 7	N 13 W 7	S 40 W 16	N 25 W 20
15	N 11 E 19	S 25 E 14	S 17 E 27	N 31 W 12	S 11 W 21	S 06 E 20	N 35 E 10	N 19 W 11	N 22 W 11	S 50 W 7	S 10 W 18	N 18 W 14
20	N 28 W 12	S 03 E 19	S 02 W 28	N 42 W 8	S 11 W 29	S 18 E 12	N 23 W 7	N 50 W 15	N 01 W 14	S 56 W 7	S 08 W 13	N 07 W 18
	7 3^{45} a	**7** 7^{44} a	**7** 11^{45} a	**7** 3^{44} p	**7** 7^{44} p	**7** 11^{45} p	**19** 3^{46} a	**19** 7^{44} a	**19** 11^{44} a	**19** 3^{44} p	**19** 7^{44} p	**19** 11^{44} p
$2^1/_2$	N 05 E 60	N 02 W 49	N 05 W 7	N 11 E 45	N 10 W 19	S 87 W 41	S 85 W 11	S 27 W 7	N 13 E 11	N 29 E 19	S 54 W 7	N 26 E 19
5	N 26 E 40	N 08 E 58	N 05 W 7	N 09 W 41	N 20 W 22	N 29 E 45	S 85 W 11	S 47 W 7	N 23 E 9	S 34 W 11	S 74 W 13	N 26 E 30
10	N 19 E 31	N 05 E 56	N 17 E 17	N 02 E 41	N 12 E 23	S 11 E 33	S 88 W 11	S 17 W 9	N 13 E 14	S 34 W 16	S 14 E 24	S 04 W 16
15	N 17 W 27	N 16 E 50	S 05 W 24	S 02 E 7	S 36 E 13	S 02 E 42	S 88 W 8	S 17 W 11	N 51 W 11	S 30 W 14	S 09 W 33	S 20 E 12
20	N 08 W 35	S 12 W 10	S 05 W 34	S 04 E 5	S 09 E 14	S 23 E 43	S 82 W 14	S 06 W 10	N 41 W 10	S 14 W 14	S 10 W 31	S 57 W 13
	8 3^{46} a	**8** 7^{44} a	**8** 11^{45} a	**8** 3^{44} p	**8** 7^{44} p	**8** 11^{45} p	**20** 3^{44} a	**20** 7^{44} a	**20** 11^{45} a	**20** 3^{47} p	**20** 7^{44} p	**20** 11^{44} p
$2^1/_2$	N 11 E 44	N 21 E 59	N 22 E 11	N 47 E 24	N 04 E 25	S 56 E 7	N 19 E 24	N 13 E 25	N 07 W 33	N 04 W 27	N 20	N 08 W 19
5	N 39	N 11 E 55	S 22 W 11	N 17 E 14	N 04 E 37	S 46 E 16	N 04 W 10	N 18 W 23	N 20 E 29	N 04 W 29	N 32 E 22	N 35 E 20
10	S 57 W 5	N 11 E 56	S 08 E 24	S 10 E 19	N 07 W 25	S 35 E 34	N 48 W 7	S 12 W 9	N 25 E 8	N 02 E 22	S 23 E 12	S 30 E 8
15	S 89 W 6	N 07 W 21	S 08 E 38	S 16 W 24	N 20 W 23	S 26	N 52 W 5	S 02 E 14	N 25 E 8	N 26 W 10	S 03 W 12	S 04 E 6
20	N 08 W 8	N 17 W 17	S 08 E 41	S 49 W 13	N 31 W 21	S 13 E 21	N 41 W 10	S 09 E 10	N 25 E 8	S 80 W 11	S 04 W 12	S 44 W 6
	9 3^{44} a	**9** 7^{44} a	**9** 11^{44} a	**9** 3^{44} p	**9** 7^{44} p	**9** 11^{44} p	**21** 3^{45} a	**21** 7^{45} a	**21** 11^{45} a	**21** 3^{44} p	**21** 7^{46} p	**21** 11^{46} p
$2^1/_2$	N 14 E 13	N 19 W 70	N 20 E 35	S 23 E 16	N 52 E 9	S 09 E 32	N 05 W 25	N 02 W 11	N 25 E 14	N 02 W 46	N 05 W 25	N 02 W 46
5	N 04 E 16	N 19 W 79	N 31 E 33	S 03 E 19	N 62 E 19	S 12 W 29	N 05 W 41	N 38 E 21	N 46 E 24	N 02 W 47	N 16 E 53	N 08 E 58
10	S 15 E 33	N 08 W 59	N 10 W 21	S 28 W 45	N 10 W 22	S 32 E 24	S 24 E 36	N 38 E 8	N 26 E 14	N 12 E 17	N 56 E 18	N 10 E 19
15	S 08 W 22	N 05 W 48	S 22 W 19	S 07 W 46	N 41 W 23	S 20 E 28	S 23 E 33	N 38 E 12	N 26 E 6	N 14	S 48 E 15	S 74 E 4
20	S 30 W 19	N 04 W 41	S 18 W 21	S 16 E 47	N 08 W 25	S 20 E 25	S 23 E 24	N 16 E 7	S 10 W 11	N 8	S 55 E 19	S 09 E 6
	10 3^{48} a	**10** 7^{44} a	**10** 11^{45} a	**10** 3^{44} p	**10** 7^{45} p	**10** 11^{44} p	**22** 3^{47} a	**22** 7^{47} a	**22** 11^{44} a	**22** 3^{44} p	**22** 7^{47} p	**22** 11^{45} p
$2^1/_2$	S 20 E 58	N 11 E 20	N 30	S 28 E 61	N 29 E 25	N 08 W 24	N 11 W 70	N 15 W 55	N 19 W 24	N 33 W 46	N 25 E 24	N 17
5	S 32 E 67	N 11 E 29	N 29	S 35 E 69	N 39 E 33	N 18 W 27	N 01 W 90	N 15 E 59	N 19 W 34	N 29 E 39	N 25 E 40	N 24
10	S 19 E 50	N 11 E 45	N 05 W 28	S 32 E 84	N 40 E 71	N 29 W 24	N 13 W 43	N 23 E 36	S 05 W 16	N 08 E 57	N 35 E 38	N 83 E 30
15	S 18 E 30	N 51	N 06 E 37	N 20 E 5	N 27 E 67	N 34 W 20	N 13 W 37	N 20 W 22	S 20 E 20	N 08 E 38	N 48 E 34	S 55 E 26
20	S 31 E 20	N 56	N 03 W 20	N 03 E 30	N 15 E 54	N 02 E 22	N 08 W 30	N 08 W 20	S 47 E 20	N 04 W 34	N 54 E 14	S 66 E 27
	11 3^{44} a	**11** 7^{44} a	**11** 11^{46} a	**11** 3^{44} p	**11** 7^{44} p	**11** 11^{44} p	**23** 3^{45} a	**23** 7^{46} a	**23** 11^{44} a	**23** 3^{44} p	**23** 7^{46} p	**23** 11^{48} p
$2^1/_2$	S 81 W 6	N 03 W 24	N 55 W 22	S 79 W 20	N 05 E 26	N 17 E 11	N 21 W 59	N 13 W 59	S 08 W 9	N 02 E 39	N 16 W 40	S 82 E 22
5	S 71 W 7	N 13 W 29	N 45 W 22	S 60 E 22	N 05 W 31	N 18 W 14	N 13 W 55	N 18 E 54	S 68 W 11	N 09 W 42	N 05 W 41	S 52 E 24
10	S 66 W 17	N 08 E 33	N 28 W 50	S 10 E 23	N 16 W 31	N 06 E 14	N 12 W 36	N 17 E 49	S 86 E 14	S 55 W 13	N 06 W 29	S 11 W 29
15	S 45 W 23	N 05 W 33	N 04 W 30	S 10 E 35	N 51 W 21	S 04 E 16	N 08 E 36	N 18	S 26 E 20	S 37 W 9	N 20 E 20	S 05 W 29
20	S 45 W 25	N 05 W 31	S 13 E 34	S 01 W 39	N 85 W 21	S 04 E 20	N 15 W 27	N 19	S 06 E 22	N 70 W 8	S 21 E 26	S 05 W 27

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende September 24—October 17 1913.

Meter	24 3⁴⁴ a	24 7⁴⁴ a	24 11⁴⁴ a	24 3⁴⁴ p	24 7⁴⁴ p	24 11⁴⁵ p	6 3⁴⁵ a	6 7⁴⁵ a	6 11⁴⁴ a	6 3⁴⁵ p	6 7⁴⁴ p	6 11⁴⁵ p
2½	N 02 E 41	N 08 W 39	S 32 E 11	N 12 E 34	N 02 E 44	N 16 W 6	N 02 E 124	N 28 W 80	N 40 W 46	N 01 W 87	N 27 W 59	N 10 W 34
5	N 24 E 22	N 18 W 38	N 08 E 11	N 12 E 29	N 20 W 39	N 14 E 14	N 10 E 110	N 10 E 84	N 03 W 52	N 08 E 91	N 04 E 58	S 01 E 7
10	S 10 W 15	N 18 W 36	S 20 E 30	N 12 E 28	N 03 E 26	S 16 E 24	N 18 E 86	N 08 E 75	N 30 E 57	N 08 E 64	N 05 E 49	S 05 E 42
15	S 67 W 10	N 18 W 13	S 20 E 38	S 18 W 15	N 04 E 27	S 06 E 23	N 14 E 42	N 32 W 10	N 68 E 8	N 08 E 20	N 36 E 5	S 09 E 48
20	N 41 W 4	N 18 W 13	S 20 E 39	N 57 W 5	N 21 W 30	S 05 E 21	N 89 W 14	N 24 E 18	S 01 E 22	N 22 W 12	S 18 E 27	S 10 E 35
	25 3⁴⁵ a	**25** 7⁴⁴ a	**25** 11⁴⁴ a	**25** 3⁴⁴ p	**25** 7⁴⁶ p	**25** 11⁴⁵ p	**7** 3⁵⁰ a	**7** 7⁴⁴ a	**7** 11⁴⁶ a	**7** 3⁵⁰ p	**7** 7⁴⁵ p	**7** 11⁴⁶ p
2½	N 02 E 30	N 05 E 66	N 32 W 24	N 11 W 46	N 28 W 70	N 05 E 19	N 07 E 58	N 07 W 35	N 35 W 6	N 03 W 31	N 07 E 46	N 02 E 4
5	N 12 E 32	N 05 E 75	N 17 W 25	N 11 E 24	N 28 W 65	N 15 E 20	N 07 E 53	N 10 W 40	N 45 E 6	N 22 E 20	N 17 E 55	N 25 W 7
10	N 25 E 14	N 05 E 76	N 43 E 23	S 13 W 22	N 07 W 60	N 24 E 40	N 22 W 6	N 11 E 40	S 08 E 36	S 30 W 12	N 18 E 24	S 10 W 45
15	S 18 W 10	N 07 W 62	S 12 E 16	S 04 W 18	N 20 E 47	S 02 W 13	S 45 W 15	S 03 W 16	S 16 W 44	S 30 W 14	N 06 E 28	S 15 W 56
20	S 11 W 8	N 30 W 36	S 12 E 14	S 06 E 14	N 02 W 22	S 05 E 8	S 65 W 15	S 08 W 14	S 06 E 45	S 58 W 11	N 09 W 23	S 01 W 57
	26 3⁴⁶ a	**26** 7⁴⁴ a	**26** 11⁴⁴ a	**26** 3⁴⁶ p	**26** 7⁴⁴ p	**26** 11⁴⁸ p	**8** 3⁴⁵ a	**8** 7⁴⁵ a	**8** 11⁴⁴ a	**8** 3⁵⁰ p	**8** 7⁴⁵ p	**8** 11⁴⁵ p
2½	N 11 W 40	N 10 E 96	N 70	N 21 W 57	N 176	N 10 E 85	N 41 W 6	N 11 W 80	N 43 W 53	N 26 W 96	N 42 W108	N 40 W119
5	N 22 W 28	N 83	N 90	N 08 W 55	N 13 E 156	N 79	N 49 E 22	N 20 E 89	N 22 E 47	N 12 E 112	N 05 E 112	N 41 E 110
10	S 22 E 34	N 13 E 88	N 82	N 20 W 16	N 13 E 112	N 08 E 72	S 16 W 16	N 20 E 65	N 29 E 58	N 04 E 59	N 36 E 106	N 35 E 109
15	S 11 E 40	N 13 E 84	N 12 E 83	S 05 W 30	N 13 E 88	N 03 W 50	S 04 E 19	N 02 W 58	N 20 E 17	N 03 W 58	N 30 E 112	N 02 W100
20	S 11 E 33	N 12 E 73	N 12 E 58	S 07 W 31	N 12 W 66	N 22 E 42	S 02 E 12	N 18 W 43	S 17 W 21	N 10 W 52	N 18 W120	N 01 E 113
	27 3⁴⁴ a	**27** 7⁴⁸ a	**27** 11⁴⁸ a	**27** 3⁴⁴ p	**27** 7⁴⁶ p	**27** 11⁴⁴ p	**9** 3⁴⁸ a	**9** 7⁴⁵ a	**9** 11⁴⁴ a	**9** 3⁴⁵ p	**9** 7⁴⁵ p	**9** 11⁴⁵ p
2½	N 15 W 53	N 32 E 94	N 94	N 05 E 53	N 12 E 119	N 53	N 63 W151	N 17 W 96	N 50 W 84	N 08 W 48	N 63 W 58	S 87 W 33
5	N 57 E 59	N 09 W 79	N 10 W 83	N 17 E 31	N 12 E 111	N 52	N 49 W103	N 03 W127	N 34 W 96	N 02 W 58	N 08 E 58	N 61 W 24
10	S 03 W 56	N 18 E 14	N 72 E 19	S 14 E 48	N 12 E 11	N 03 W 57	N 44 E 102	N 35 E 120	N 04 E 107	N 65	N 14 W 74	S 86 W 32
15	S 03 W 59	N 10 W 13	S 15 W 34	S 14 E 53	S 24 E 10	S 03 E 29	N 30 E 113	N 14 E 119	N 75 E 116	N 07 W 63	N 18 E 78	N 31 E 41
20	S 03 W 53	N 05 W 17	S 03 W 34	S 24 E 30	N 15 W 19	S 52 W 20	N 03 E 123	N 35 W 70	N 18 W 85	N 59 E 64	N 20 E 78	S 01 E 27
	28 3⁴⁸ a	**28** 7⁴⁵ a	**28** 11⁴⁴ a	**28** 3⁴⁴ p	**28** 7⁴⁴ p	**28** 11⁴⁴ p	**10** 3⁴⁵ a	**10** 7⁴⁶ a	**10** 11⁴³ a	**10** 3⁴³ p	**10** 7⁴⁵ p	**10** 11⁴⁶ p
2½	N 42 E 11	N 05 E 44	N 12 E 93	N 30 E 36	N 12 E 70	N 15 W 68	S 14 W 46	N 26 W 16	N 16 W 70	N 09 E 40	N 22 W 46	N 02 W 42
5	S 22 W 29	N 05 E 44	N 43 E 83	N 10 E 35	N 43 E 79	N 06 E 58	S 04 W 48	N 04 E 53	N 15 E 80	N 09 E 46	N 14 E 69	N 23 E 19
10	S 08 E 74	S 75 E 26	N 22 E 62	S 33	N 43 W 8	N 17 E 56	S 04 W 37	N 19 W 54	N 18 W 66	N 12 E 35	N 15 E 56	N 21 W 14
15	S 08 E 70	S 18 E 30	N 22	S 01 E 36	N 15 W 12	N 07 W 36	S 03 E 20	N 17 E 56	N 18 W 57	N 12 E 32	N 16 E 43	N 60 W 6
20	S 08 E 64	S 85 W 24	N 20 E 20	S 09 E 33	N 12 W 19	N 24 W 22	S 56 W 10	N 34 W 76	N 10 W 52	N 29	N 03 E 30	N 77 W 4
	29 3⁴⁴ a	**29** 7⁴⁶ a	**29** 11⁴⁴ a	**29** 3⁴⁴ p	**29** 7⁴⁵ p	**29** 11⁴⁴ p	**11** 3⁴⁴ a	**11** 7⁴² a	**11** 11⁴⁴ a	**11** 3⁴² p	**11** 7⁴⁴ p	**11** 11⁴⁵ p
2½	N 05 W 48	N 12 E 59	N 20 W 61	N 02 W 21	N 12 E 42	N 20 W 72	N 18 W 4	N 01 W 9	N 19 E 21	S 04 W 7	N 08 W 20	N 01 W 40
5	N 26 W 35	N 09 W 56	N 10 W 59	S 81 W 6	N 09 W 34	N 01 E 22	S 22 W 16	S 01 E 7	S 72 E 6	S 84 W 7	N 13 E 19	N 01 W 51
10	S 06 E 34	N 68 W 19	N 04 E 36	S 03 E 24	S 41 E 18	N 02 E 40	S 02 W 32	S 21 E 19	N 40 E 10	S 64 W 9	N 03 E 6	N 14 E 37
15	S 02 W 37	N 53 E 18	N 05 E 42	S 02 E 38	S 25 E 23	N 12 W 33	S 08 E 39	S 21 E 26	S 10 E 31	S 08 W 35	S 03 W 15	S 87 W 6
20	S 11 W 36	N 12 W 17	N 05 W 34	S 02 E 40	N 63 W 23	N 27 W 39	S 20 E 40	S 10 E 33	S 32	S 02 E 41	S 07 E 18	S 82 W 7
	30 3⁴⁴ a	**30** 7⁴⁴ a	**30** 11⁴⁴ a	**30** 3⁴⁴ p	**30** 7⁴⁴ p	**30** 11⁴⁸ p	**12** 3⁴⁵ a	**12** 7⁴⁸ a	**12** 11⁵⁴ a	**12** 3⁴² p	**12** 7⁴⁴ p	**12** 11⁴⁵ p
2½	N 15 E 20	N 22 W 45	N 05 W 76	N 41 W 11	N 21 W 55	N 10 E 119	N 49 E 20	N 32 E 34	N 08 E 24	N 13 E 9	N 28 E 16	N 16 W 57
5	N 17 W 17	N 30 E 33	N 05 W 88	N 22 E 14	N 30 E 68	N 10 E 73	N 80 E 16	S 78 E 19	N 03 W 18	N 30 W 4	N 28 E 35	N 04 E 67
10	S 15 W 23	S 30 W 14	N 08 E 53	S 10 E 11	S 88 E 16	N 16 E 72	S 21 E 7	S 18 E 24	S 33 W 10	S 20 E 20	N 28 E 40	N 04 E 54
15	S 14 W 21	S 25 E 15	N 08 E 48	S 10 E 19	N 14 W 8	N 08 W 66	S 04 E 27	S 08 E 32	S 26 W 18	S 10 E 33	N 38 E 20	N 13 E 22
20	S 25 W 20	S 72 W 12	N 23 E 37	S 10 E 14	N 08 W 11	N 04 E 52	S 06 W 38	S 10 W 14	S 16 W 19	S 01 W 31	N 36 E 18	N 28 E 19
	1 3⁴⁶ a	**1** 7⁴⁴ a	**1** 11⁴⁴ a	**1** 3⁴⁴ p	**1** 7⁴⁴ p	**1** 11⁴⁸ p	**13** 3⁴⁸ a	**13** 7⁴³ a	**13** 11⁴⁴ a	**13** 3⁴⁴ p	**13** 7⁴³ p	**13** 11⁴⁸ p
2½	N 03 E 48	N 03 W 33	N 11 W 65	S 05 W 11	N 15 W 41	N 30 W 85	N 05 W 25	N 02 E 18	N 10 W 42	N 05 E 40	N 33 E 29	N 13 W 59
5	S 84 E 34	N 28 E 34	N 11 E 58	S 05 W 14	N 25 W 42	N 04 W 83	N 05 W 33	N 08 W 23	N 03 E 46	N 03 E 24	N 03 E 23	N 13 W 58
10	S 10 W 17	N 25 W 5	N 09 W 59	S 65 W 19	N 18 E 42	N 30 E 73	N 32 W 31	N 08 W 20	N 03 E 52	S 21	S 15 E 28	N 13 W 49
15	S 08 W 31	S 24 W 12	N 18 W 56	S 03 W 18	S 20	N 07 W 50	S 01 E 28	S 18 W 15	N 25 E 13	S 34	S 08 E 25	N 34
20	S 24 E 25	N 24 E 2	N 04 W 40	S 03 W 25	S 05 E 20	N 08 W 43	S 01 E 27	S 10 W 14	N 39 E 7	S 36	S 22 W 20	N 58 W 18
	2 3⁴⁶ a	**2** 8⁴¹ a	**2** 11⁴⁴ a	**2** 3⁴⁴ p	**2** 7⁴⁴ p	**2** 11⁴⁵ p	**14** 3⁴⁸ a	**14** 7⁴⁴ a	**14** 11⁴³ a	**14** 3⁴⁹ p	**14** 7⁴⁵ p	**14** 11⁴⁷ p
2½	N 22 W 53	N 10 E 36	N 95	N 18 W 40	N 15 W 39	N 10 E 94	N 07 W 25	N 15 E 38	N 15 E 94	N 03 W 27	N 26 E 48	N 29 E 91
5	S 65 W 12	N 31 W 32	N 83	N 08 W 19	N 15 W 43	N 10 E 79	N 03 E 31	N 24 E 53	N 17 E 82	N 13 E 36	N 26 E 40	N 29 E 78
10	N 80 W 4	S 28 W 30	N 31	S 06 W 10	S 20 W 26	N 02 W 30	S 11 E 34	S 14 W 34	N 17 E 56	S 16 E 49	S 11 E 59	S 20 E 50
15	S 16 E 20	S 01 E 25	N 12	S 18 E 26	S 22 W 36	N 08 W 33	S 30 E 46	S 10 W 49	N 15 E 37	S 26 E 44	S 18 W 67	S 08 E 40
20	S 06 E 22	S 12 E 20	N 12	S 18 E 26	S 02 W 35	N 20 W 23	S 26 E 48	S 03 W 49	N 15 E 6	S 17 E 54	S 01 E 59	S 43 E 42
	3 3⁵² a	**3** 7⁴⁴ a	**3** 11⁴⁴ a	**3** 3⁴⁴ p	**3** 7⁴⁴ p	**3** 11⁴⁷ p	**15** 3⁴⁴ a	**15** 7⁴² a	**15** 11⁴⁴ a	**15** 3⁴⁴ p	**15** 7⁴⁴ p	**15** 11⁴³ p
2½	N 15 W 29	N 31 W 41	N 80	N 02 W 59	N 21 W 20	N 11 W 76	N 25 E 19	S 26 E 31	S 12 E 80	S 02 W124	S 53	N 08 E 20
5	N 15 W 20	S 07 E 12	N 57	N 25 E 14	N 21 W 24	N 21 W 68	N 27 E 25	S 19 E 20	S 08 E 64	S 12 W 80	S 21 E 47	N 02 W 17
10	S 78 W 11	S 08 W 43	N 19	N 06 W 16	S 04 E 21	N 23 W 23	S 03 E 47	S 06 E 39	S 05 E 66	S 02 E 85	S 39 E 31	N 20 E 26
15	S 03 W 17	S 18 W 29	N 20 W 12	S 65 E 5	S 02 E 24	N 07 E 17	S 03 E 56	S 06 E 46	S 02 W 49	S 04 E 46	S 21 E 25	N 24 W 22
20	S 14 W 18	S 42 W 21	N 15 W 11	S 50 W 6	S 13 E 22	N 08 W 9	S 03 E 57	S 05 E 43	S 22 E 52	S 14 E 56	S 42 E 25	N 43 W 28
	4 3⁴⁵ a	**4** 7⁴⁵ a	**4** 11⁵¹ a	**4** 3⁴⁵ p	**4** 7⁴⁵ p	**4** 11⁴⁵ p	**16** 3⁴⁵ a	**16** 7⁴³ a	**16** 11⁴² a	**16** 3⁴⁴ p	**16** 7⁴⁵ p	**16** 11⁴⁵ p
2½	N 35 E 61	N 02 E 49	N 07 W 60	N 52 E 51	N 15 E 17	N 40 E 44	S 88 E 20	N 20 E 29	N 08 W 91	N 25 W 11	N 04 E 21	N 04 E 53
5	N 25 E 57	N 14 E 21	N 10 W 56	N 73 E 63	N 15 E 32	N 10 E 40	S 08 E 25	N 20 E 32	N 24 E 76	N 13 W 20	N 13 E 46	N 04 E 57
10	N 12 E 29	S 14 E 20	S 82 W 19	N 02 E 6	S 07 W 30	S 03 W 20	S 13 W 24	N 12 W 45	N 20 E 84	N 33 E 16	N 12	N 10 W 24
15	N 18 W 20	S 02 W 28	N 08 W 24	S 26 W 20	S 14 E 30	S 05 E 20	S 45 W 28	N 12 W 51	N 18 W 54	N 05 E 21	N 26 W 7	N 08 E 8
20	N 55 W 13	S 03 W 28	S 25 E 5	S 65 W 18	S 04 E 38	S 03 E 19	S 34 W 31	N 08 W 41	N 08 W 33	N 17 W 28	S 37 W 19	N 68 W 9
	5 3⁴⁵ a	**5** 7⁴⁵ a	**5** 11⁴⁴ a	**5** 3⁴⁴ p	**5** 7⁴⁵ p	**5** 11⁴⁴ p	**17** 3⁴⁸ a	**17** 7⁴⁴ a	**17** 11⁴⁹ a	**17** 3⁴³ p	**17** 7⁴⁵ p	**17** 11⁴⁵ p
2½	N 35 W 16	N 82 W 19	N 17 W 34	N 22 W 70	N 10 E 25	N 33 W 40	N 57 E 16	N 32 E 42	N 27 E 45	N 43 E 9	N 57 E 14	N 22 E 29
5	N 05 W 59	N 10 W 26	N 04 E 58	N 06 E 77	N 22 W 32	N 03 W 59	S 27 W 16	N 32 W 15	N 07 E 38	N 70 E 20	S 40 W 19	N 22 E 25
10	N 53 W 12	N 58 E 16	N 46	N 37 E 88	N 03 E 34	N 03 W 57	S 46 E 33	S 49 W 35	S 08 E 15	S 29 E 30	S 13 E 41	N 30 W 10
15	N 38 W 21	N 45 W 19	N 28 E 45	N 27 E 62	N 03 E 34	N 03 W 27	S 03 E 52	S 06 W 31	S 22 E 20	S 07 W 19	S 05 W 30	S 64 W 17
20	N 43 W 15	N 03 W 24	N 58 W 23	N 05 W 24	N 84 W 11	N 14 W 10	S 03 E 53	S 02 E 26	S 12 W 23	S 08 W 26	S 16 W 34	S 44 E 14

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende October 18—November 10 1913.

Meter	18 3⁴⁶ a	18 7⁴⁵ a	18 11⁴⁴ a	18 3⁴⁵ p	18 7⁵⁴ p	18 11⁴⁸ p	30 3⁵² a	30 8⁰⁵ a	30 11⁴⁵ a	30 3⁴⁵ p	30 7⁴⁴ p	30 11⁴⁵ p
2½	N 67 E 16	N 30 W 13	N 10 E 46	N 56 E 41	N 27 E 11	N 37 E 41	N 22 W 66	N 08 E 91	N 03 E 89	N 33 W 19	N 15 E 56	N 07 E 72
5	N 27 E 25	N 15 E 18	N 13 E 39	N 33 E 28	N 27 E 19	N 22 E 24	N 12 W 35	N 08 E 78	N 88	N 43 W 35	N 02 E 9	N 07 E 79
10	S 40 E 46	S 36 E 20	N 61 W 14	N 13 E 8	S 38 W 20	N 22 W 9	S 14 E 26	N 28 E 19	N 05 E 61	S 24 E 28	S 24 W 18	N 04 W 87
15	S 50 W 26	S 27 E 23	N 20 E 10	N 79 E 6	S 38 W 24	N 32 W 11	S 05 W 25	N 35 E 14	N 10 W 46	S 24 E 35	S 15 W 22	N 08 E 72
20	S 12 W 32	S 06 E 27	S 38 W 19	S 78 W 16	S 03 W 26	N 15 W 17	S 05 E 24	S 02 W 4	N 03 E 41	S 14 E 33	S 14 W 19	N 03 W 50
	19 3⁴³ a	**19** 7⁴² a	**19** 11⁴⁴ a	**19** 3⁴⁵ p	**19** 7⁴⁵ p	**19** 11⁴⁴ p	**31** 3⁴⁵ a	**31** 7⁴⁴ a	**31** 11⁵⁴ a	**31** 3⁴⁴ p	**31** 7⁴⁵ p	**31** 11⁴⁴ p
2½	N 45 E 40	N 20 E 31	N 15 E 28	N 18 W 19	N 30 W 11	N 18 W 29	N 15 E 29	N 21 W 56	N 01 W 64	N 05 W 33	N 08 W 55	N 07 W 50
5	N 24 E 37	N 01 W 37	N 06 W 33	N 28 W 27	N 20 W 14	N 18 W 25	N 18 E 18	N 01 W 57	N 01 W 69	N 23 W 21	N 04 W 28	N 07 W 56
10	N 24 E 16	S 42 W 15	N 05 W 38	S 52 W 7	S 09 W 19	S 17	S 18 W 17	S 03 W 21	N 01 W 47	S 12 W 26	S 12 E 28	N 07 W 56
15	N 10 E 15	S 34 W 15	N 68 W 7	S 04 W 11	S 01 E 30	S 09 W 17	S 15 W 29	S 03 E 19	N 01 W 31	S 08 W 32	S 14 E 30	N 06 E 29
20	N 40 W 9	N 84 W 10	N 54 W 6	S 04 E 7	S 07 E 16	S 18 W 14	S 05 W 24	S 04 E 24	N 01 W 15	S 03 E 33	S 02 W 33	N 08 W 20
	20 3⁴⁵ a	**20** 7⁴⁵ a	**20** 11⁴⁸ a	**20** 3⁴⁴ p	**20** 7⁴⁵ p	**20** 11⁴⁵ p	**1** 3⁴⁵ a	**1** 7⁴⁴ a	**1** 11⁴⁵ a	**1** 3⁴⁴ p	**1** 7⁴⁵ p	**1** 11⁴⁶ p
2½	N 05 E 46	N 56	N 12 E 108	N 07 E 93	N 05 E 33	S 23 W 7	S 33 W 20	N 08 W 17	N 08 W 76	N 20 E 14	N 53 E 42	N 13 E 61
5	N 15 E 58	N 22 E 69	N 12 E 113	N 17 E 93	N 01 W 31	S 43 W 13	S 33 W 23	N 05 E 30	N 08 W 78	N 33 E 22	N 64 E 36	N 03 E 65
10	N 64 W 19	N 30 E 34	N 15 W 71	N 06 E 80	S 12 E 44	S 07 E 39	S 33 W 26	S 12 W 20	N 31 E 22	N 25 E 20	S 08 E 49	N 26 E 49
15	N 18 E 20	N 13 E 37	N 10 E 57	N 52 W 22	S 03 E 89	S 18 E 44	S 30 E 38	S 03 W 28	N 58 E 22	N 70 E 17	S 08 E 43	N 13 E 14
20	N 20 E 13	N 01 E 39	N 28 W 51	N 83 W 10	S 19 E 87	S 19 E 38	S 30 E 30	S 07 E 36	N 12 W 14	S 73 E 10	S 04 E 34	N 04 W 19
	21 3⁴⁶ a	**21** 8¹⁴ a	**21** 11⁴⁸ a	**21** 3⁴² p	**21** 7⁴⁵ p	**21** 11⁴⁴ p	**2** 3⁴⁵ a	**2** 7⁴⁵ a	**2** 11⁴⁴ a	**2** 3⁴⁵ p	**2** 7⁴⁵ p	**2** 11⁴⁵ p
2½	N 12 E 50	N 20 W 46	N 46	N 05 E 85	N 05 W 89	N 59	N 01 W 56	N 05 W 40	N 08 W 68	N 07 W 53	N 17 E 31	N 02 E 32
5	N 02 E 32	N 42 E 53	N 25 E 60	N 36 E 92	N 05 E 89	N 52	N 09 E 45	N 16 W 34	N 18 W 67	N 10 W 58	N 14 W 29	N 02 E 33
10	S 02 W 23	N 50 E 11	S 14 E 42	N 37 E 62	S 83 E 1	S 20	N 22 E 34	S 23 E 18	N 03 W 14	S 26 E 4	S 03 W 41	N 13 W 7
15	S 06 E 27	S 02 E 36	S 24 E 33	N 07 W 51	N 20 E 29	S 49	N 18 E 14	S 17 E 20	N 20 W 14	S 18 E 21	S 02 E 43	S 14 E 27
20	S 06 W 12	N 20 W 13	S 05 W 28	N 05 W 54	S 18 W 36	S 30	N 20 E 9	S 08 E 20	N 10 E 18	S 45 W 12	S 06 E 56	S 03 W 21
	22 3⁴⁶ a	**22** 7⁴³ a	**22** 11⁴⁴ a	**22** 3⁴⁴ p	**22** 7⁴⁵ p	**22** 11⁴⁴ p	**3** 3⁴⁷ a	**3** 7⁴⁵ a	**3** 11⁴⁵ a	**3** 3⁴⁵ p	**3** 7⁴⁴ p	**3** 11⁵⁰ p
2½	N 90	N 12 W 58	N 13 W 16	N 49 E 9	S 44 W 11	S 20 W 16	N 05 E 46	N 05 E 59	S 02 E 20	N 14 E 85	S 10 W 19	S 44 W 13
5	N 12 E 85	N 02 W 36	S 50 W 20	N 69 E 16	S 16 E 19	S 10 E 25	N 05 E 51	N 12 E 38	S 12 E 39	N 14 E 79	S 12 W 19	S 36 E 40
10	N 12 E 52	S 16 E 24	S 10 E 46	S 02 W 33	S 16 E 30	S 39	N 27 E 11	S 22 E 43	S 23 E 37	N 25 E 84	S 05 W 31	S 01 W 35
15	N 04 W 38	S 19 E 30	S 10 E 58	S 08 E 47	S 13 E 38	S 10 E 43	N 10 E 11	S 03 W 48	S 23 E 38	N 32 W 35	S 02 W 42	S 07 E 39
20	N 16 E 28	S 11 E 37	S 15 E 56	S 05 E 51	S 13 E 37	S 08 W 36	S 16 W 18	S 02 E 24	S 15 E 39	N 37 W 31	S 05 W 40	S 02 E 49
	23 3⁴⁵ a	**23** 7⁴⁴ a	**23** 11⁴⁴ a	**23** 3⁵³ p	**23** 7⁴⁴ p	**23** 11⁴⁴ p	**4** 3⁴⁴ a	**4** 7⁴⁵ a	**4** 11⁴⁴ a	**4** 3⁴⁵ p	**4** 7⁴³ p	**4** 11⁴⁴ p
2½	N 03 E 85	N 15 E 94	N 17 W 34	N 05 W 49	N 04 E 21	N 86 W 16	S 72 E 25	S 26 E 17	S 18 W 64	S 04 W 96	S 12 E 86	S 01 E 51
5	N 07 W 89	N 02 E 90	N 18 W 24	N 01 W 52	N 06 W 29	S 34 W 25	S 82 E 21	S 07 W 55	S 03 W 66	S 22 E 57	S 02 E 86	S 12 E 47
10	N 08 W 48	N 13 E 68	S 14 E 18	S 27 W 20	N 15 E 24	S 04 W 50	N 76 W 26	S 02 W 90	S 30 W 73	S 13 E 55	S 10 E 78	S 07 E 51
15	N 05 E 43	N 12 W 63	S 01 E 15	N 28 W 18	N 18 W 25	S 17 E 56	N 72 W 20	S 10 E 82	S 02 W 65	S 10 W 43	S 07 W 61	S 06 E 45
20	N 05 E 42	N 37 W 47	S 06 E 17	N 13 W 15	N 68 W 17	S 17 E 56	S 52 E 17	S 20 E 51	S 12 E 58	S 12 W 34	S 10 W 47	S 06 E 39
	24 3⁴⁵ a	**24** 7⁴³ a	**24** 11⁴² a	**24** 3⁴² p	**24** 7⁴⁵ p	**24** 11⁴⁵ p	**5** 3⁴⁵ a	**5** 7⁴⁴ a	**5** 11⁴⁴ a	**5** 3⁴⁴ p	**5** 7⁴⁴ p	**5** 11⁴⁵ p
2½	N 37 E 21	N 10 E 44	N 33 W 11	S 76 E 7	S 87 W 9	N 14 E 19	E 9	N 35 E 31	N 86 W 7	N 10 W 40	N 22 E 48	N 65 W 16
5	N 04 W 18	N 10 W 51	N 03 E 14	N 60 W 6	N 53 W 13	S 73 W 16	N 50 E 11	N 15 E 36	N 16 W 14	N 10 W 41	N 12 E 49	S 15 E 18
10	S 12 E 17	N 12 E 40	S 54 W 9	S 01 E 19	S 06 E 16	S 17 W 39	N 20 E 20	N 15 E 33	S 31 W 6	N 02 E 22	N 31	S 23 E 27
15	S 56 W 20	N 37	S 17 W 11	S 18 E 26	S 04 W 14	S 27 W 42	N 10 E 20	N 15 E 33	N 22 E 11	N 02 E 20	N 02 E 21	S 12 E 30
20	N 35 W 13	N 13 W 37	S 10 W 14	S 16 E 28	N 30 W 13	S 17	N 03 W 14	N 30 W 31	N 20	N 10 W 18	N 25 W 21	S 12 E 23
	25 3⁴⁵ a	**25** 7⁴⁴ a	**25** 11⁴³ a	**25** 3⁴³ p	**25** 7⁴⁵ p	**25** 11⁴⁴ p	**6** 3⁴⁵ a	**6** 7⁴⁷ a	**6** 11⁴⁶ a	**6** 3⁴⁵ p	**6** 7⁴⁶ p	**6** 11⁴⁴ p
2½	N 40 E 40	N 03 W 93	N 01 W 25	N 27 E 19	N 01 W 38	N 20 W 13	N 02 W 46	N 12 W 96	N 27 W 46	N 72	N 07 E 24	N 24 E 11
5	N 40 E 15	N 03 W 80	N 02 E 34	N 27 E 24	N 09 E 39	N 50 W 16	N 09 E 53	N 10 E 111	N 27 W 49	N 69	N 17 E 40	S 01 E 16
10	S 30 E 29	N 11 W 73	N 13 E 42	S 26 W 31	N 01 W 44	S 40 W 16	N 09 E 31	N 31 E 86	N 02 W 39	N 13 W 28	N 07 E 40	S 01 E 18
15	S 02 W 25	N 07 W 64	N 52 E 11	S 26 W 34	N 02 W 38	S 40 W 16	N 09 E 24	N 33 E 65	N 43 W 20	N 18 W 13	N 07 W 32	S 05 W 36
20	S 14 W 25	N 04 W 53	N 54 E 16	S 05 E 28	N 02 W 34	S 40 W 20	N 09 E 20	N 06 E 58	N 18 E 16	N 22 W 11	S 14 W 19	S 07 E 37
	26 3⁴⁸ a	**26** 7⁴⁴ a	**26** 11⁴⁶ a	**26** 3⁴⁴ p	**26** 7⁴⁴ p	**26** 11⁴⁸ p	**7** 3⁴⁶ a	**7** 7⁴⁴ a	**7** 11⁴⁴ a	**7** 3⁴⁴ p	**7** 7⁴⁵ p	**7** 11⁴⁹ p
2½	S 49 W 9	N 18 W 58	N 17 W 22	N 15 E 39	N 30 E 85	N 11 W124	S 27 W 9	N 22 E 37	N 30 E 13	N 02 W 25	N 06 W 53	N 03 W 58
5	S 29 W 17	N 08 W 57	N 03 E 39	N 08 W 11	N 01 W 84	N 01 E 121	N 57 E 9	N 34 E 22	S 11	N 02 W 27	N 15 E 58	N 44 E 54
10	S 02 E 26	N 19 W 32	N 02 E 42	S 13 E 16	N 02 W 72	N 16 E 111	S 24 E 13	N 22 E 21	S 22 E 19	S 20 E 22	N 15 E 56	N 24 W 10
15	S 03 W 35	N 19 W 31	N 12 E 35	S 14 E 21	N 02 W 60	N 19 E 74	S 16 E 30	S 50 E 9	S 17 E 20	S 12 E 26	N 15 E 47	S 86 W 7
20	S 14 W 21	N 06 E 30	N 10 E 28	S 03 E 24	N 03 W 48	S 25 W 59	S 10 E 33	S 20 W 9	S 12 E 24	S 02 E 27	N 15 E 35	S 45 W 7
	27 3⁴⁵ a	**27** 7⁴⁶ a	**27** 11⁴⁵ a	**27** 3⁴³ p	**27** 7⁴⁴ p	**27** 11⁴⁵ p	**8** 3⁴⁸ a	**8** 7⁴⁶ a	**8** 11⁴⁶ a	**8** 3⁴⁵ p	**8** 7⁴⁴ p	**8** 11⁴⁶ p
2½	N 11 W 92	N 08 W108	N 06 W 48	S 33 E 44	N 05 W 48	N 12 E 21	N 41 W 29	N 13 W 80	N 21 E 45	N 51 E 25	N 12 W 58	N 03 W 48
5	N 11 W 92	N 08 W 90	N 04 E 56	S 26 W 67	N 15 E 34	N 20 W 18	N 31 W 27	N 32 E 69	N 33 E 26	N 62 E 27	N 08 E 58	N 29 E 39
10	N 60 W 35	N 08 W 54	S 04 W 44	S 12 W 70	N 14 E 24	N 14 E 15	N 57 E 26	N 04 W 31	S 22 W 28	N 73 E 25	N 20 E 57	N 06 E 20
15	N 04 E 9	N 08 W 38	S 16 E 47	S 26 W 80	N 12 W 18	N 03 E 12	N 70 E 23	N 01 W 22	S 01 W 26	S 06 W 31	N 34	N 67 E 20
20	S 18 E 30	N 08 W 43	S 06 E 49	S 85	N 35 W 19	N 03 E 11	S 09 E 29	N 29	S 30 W 22	S 15 W 30	N 14 W 27	N 65 E 22
	28 3⁴⁵ a	**28** 7⁴⁴ a	**28** 11⁴⁴ a	**28** 3⁴² p	**28** 7⁴⁵ p	**28** 11⁴⁵ p	**9** 3⁴⁵ a	**9** 7⁴⁴ a	**9** 11⁴⁴ a	**9** 3⁴⁴ p	**9** 7⁴⁶ p	**9** 11⁴⁵ p
2½	N 02 W 11	N 10 W 26	N 09 E 44	N 31 W 37	N 05 E 87	N 11 W 68	S 77 E 11	N 23 W 43	N 21 E 37	N 01 W 21	N 08 E 59	N 11 W 53
5	S 22 E 9	N 21 E 25	N 08 W 43	N 42 E 33	N 15 E 64	N 08 E 52	S 17 E 17	N 40 E 29	N 21 E 32	S 60 E 11	N 08 E 53	N 20 E 56
10	S 13 E 20	S 71 W 8	N 08 W 47	S 29 E 32	N 02 E 26	N 10 E 33	S 07 E 20	N 38 E 7	N 11 E 27	S 50 E 13	N 05 W 22	N 08 E 44
15	S 08 W 23	N 47 W 12	N 10 W 33	S 10 E 40	N 18 E 20	N 18 W 18	S 07 E 20	N 27 E 6	N 14 E 22	S 56 E 17	N 03 E 25	N 08 E 17
20	S 18 W 20	N 15 W 14	N 12 W 10	S 10 E 36	N 01 E 20	N 23 W 14	S 07 E 20	N 18 E 20	N 13 E 17	S 36 E 20	N 17 E 20	N 24 W 7
	29 3⁴⁵ a	**29** 7⁴⁴ a	**29** 11⁴⁵ a	**29** 3⁴⁵ p	**29** 7⁴⁶ p	**29** 11⁴⁵ p	**10** 3⁴⁵ a	**10** 7⁴⁴ a	**10** 11⁴⁴ a	**10** 3⁴⁵ p	**10** 7⁴⁴ p	**10** 11⁴⁴ p
2½	N 33 W 48	N 06 W 80	N 20 E 87	N 15 W 59	N 02 E 91	N 01 W 85	N 02 W 11	N 07 W 39	N 10 E 43	N 22 W 25	N 07 W 44	N 07 W 53
5	N 33 W 28	N 10 W 30	N 26 E 68	N 21 E 16	N 06 W 29	N 09 E 92	S 02 E 14	N 03 E 43	N 33 E 17	S 64 W 13	N 07 W 40	N 11 W 58
10	S 07 E 20	S 33 W 22	N 19 E 31	S 05 E 18	S 20 W 24	N 09 E 71	S 02 E 14	S 78 E 5	N 05 W 10	S 03 E 25	N 05 W 34	N 52
15	S 16 E 23	S 37 W 25	N 01 W 28	S 03 E 27	N 37 E 20	N 09 E 68	S 02 E 20	N 28 E 4	N 05 W 10	S 29	N 05 W 25	N 17 E 37
20	S 07 E 20	S 01 E 16	N 04 W 22	S 03 W 19	N 16 E 17	N 04 W 63	S 09 E 24	N 77 E 2	S 07 W 8	S 10 E 33	N 08 W 20	N 06 E 25

E. g. N 66 W 40 means current toward N 66 W (true) of velocity 40 cm/sec.

Læsø Rende November 11—18 1913.

Meter	11 3^{44} a	11 7^{45} a	11 11^{48} a	11 3^{44} p	11 7^{46} p	11 11^{44} p	15 3^{46} a	15 7^{44} a	15 11^{45} a	15 3^{44} p	15 7^{46} p	15 11^{46} p
2½	N 05 E 32	N 09 E 85	N 09 E 70	N 13 E 85	N 09 E 85	N 04 E 69	N 10 W 9	S 10 W 11	N 37 E 11	S 25 W 20	N 61 E 11	N 29 E 46
5	N 24 E 24	N 09 E 86	N 07 E 84	N 15 E 79	N 09 E 86	N 01 E 77	N 20 W 14	S 10 W 11	S 17 W 11	S 05 E 26	N 41 E 13	N 29 E 52
10	S 25 W 25	N 14 E 86	N 07 E 89	N 16 E 72	N 09 E 88	N 01 E 79	S 44 E 11	S 20 E 30	S 11 E 19	S 08 E 31	S 70 W 7	N 24 E 44
15	S 19 W 31	N 08 E 64	N 10 E 85	N 12 E 45	N 09 E 79	N 01 E 73	S 15 E 24	S 20 E 38	S 08 E 32	S 08 E 33	S 62 W 11	N 01 E 36
20	S 24 E 22	N 06 W 58	N 14 E 72	N 01 W 56	N 09 E 46	N 01 E 52	S 01 W 19	S 20 E 39	S 08 E 33	S 07 E 32	S 43 W 6	N 12 E 29
	12 3^{44} a	**12** 7^{44} a	**12** 11^{48} a	**12** 3^{44} p	**12** 7^{46} p	**12** 11^{44} p	**16** 3^{44} a	**16** 7^{44} a	**16** 11^{46} a	**16** 3^{45} p	**16** 7^{46} p	**16** 11^{44} p
2½	N 12 W 30	S 35 E 22	N 18 W 11	N 33 E 33	N 46	N 85	N 75 E 22	N 29 E 24	N 30 W 59	N 15 E 24	N 44 E 11	N 15 E 16
5	N 25 W 24	N 70 E 14	S 18 E 6	S 67 E 30	N 31 E 42	N 05 E 68	N 86 E 24	N 50 E 29	N 02 W 52	N 36 E 18	S 23 E 11	N 45 W 20
10	S 01 W 38	S 47 E 22	S 48 E 19	S 67 E 32	S 12 E 29	N 29 E 48	S 18 W 24	S 57 E 29	N 29	S 60 E 11	S 13 E 24	S 23 W 16
15	S 01 W 56	S 48 E 38	S 48 E 44	S 14 E 44	S 57 E 20	N 18 W 30	S 48 W 30	S 40 E 20	N 13 E 26	S 32 E 13	S 26 E 33	S 06 E 19
20	S 08 W 58	S 68 E 42	S 16 E 40	S 05 W 38	N 06 E 24	N 06 W 29	S 56 E 26	S 28 W 31	N 16 E 20	S 30 E 11	S 05 E 34	S 07 E 14
	13 3^{44} a	**13** 7^{44} a	**13** 11^{47} a	**13** 3^{46} p	**13** 7^{45} p	**13** 11^{46} p	**17** 3^{44} a	**17** 7^{41} a	**17** 11^{47} a	**17** 3^{47} p	**17** 7^{47} p	**17** 11^{46} p
2½	N 16 W 6	N 11 W 24	N 40 E 70	N 45 E 11	N 42 E 24	N 05 E 32	S 44 W 24	N 12 E 39	N 07 E 85	N 20 W 57	S 27 W 33	S 05 W 20
5	S 44 W 11	N 07 W 29	N 35 E 38	S 85 E 9	N 35 E 21	N 25 E 30	S 34 W 26	N 12 E 38	N 17 E 87	N 01 E 80	S 23 W 30	S 08 E 21
10	S 08 E 16	N 28 E 25	N 11 E 20	S 03 W 30	S 30 W 28	S 11 W 10	S 14 E 36	N 12 E 21	N 07 E 73	N 24 E 48	S 08 E 58	S 09 W 53
15	S 23 E 18	N 27 E 16	N 10 E 19	S 07 E 28	S 32	S 86 W 10	S 14 E 37	N 12 E 6	N 07 W 50	N 12 E 33	S 18 E 58	S 02 E 44
20	S 04 W 25	S 08 E 20	N 08 E 16	S 07 E 32	S 10 E 33	N 53 W 8	S 03 E 32	N 12 E 10	N 17 W 44	N 58 E 17	S 18 E 64	S 16 E 36
	14 3^{44} a	**14** 7^{44} a	**14** 11^{44} a	**14** 3^{44} p	**14** 7^{44} p	**14** 11^{45} p	**18** 3^{45} a	**18** 7^{49} a	**18** 11^{44} a			
2½	N 02 W 20	N 18 W 19	N 05 W 32	S 83 W 33	N 18 W 13	N 12 E 53	S 17 E 16	S 23 E 33	S 50 W 7			
5	N 14 W 7	N 45 E 10	N 05 W 33	S 83 W 35	S 42 W 19	N 02 E 58	S 17 E 33	S 03 E 48	S 30 E 11			
10	S 11 E 14	S 24 E 16	N 28 W 19	S 08 E 40	S 02 W 35	N 02 E 36	S 08 E 43	S 03 E 51	S 54 E 7			
15	S 15 E 19	S 03 E 14	N 18 W 16	S 17 E 45	S 19 E 39	N 02 E 22	S 09 E 51	S 03 E 57	N 25 W 16			
20	S 26 E 19	S 04 E 19	N 47 W 24	S 17 E 50	S 14 W 40	N 13 W 23	S 10 W 46	S 03 E 36	N 14 W 22			

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